

# The CHEMIST AND DRUGGIST

RETAILER — WHOLESALE — MANUFACTURER

FEBRUARY 9, 1952



**your customers will remember**

**'ZEPHROL'**

trade mark

brand

**cough syrup**

because of its rapid effectiveness in relieving irritating coughs, and because of its palatability.

Retail Price

Containers of 2½ fl. oz. 2s. 0d.  
plus Purchase Tax

BONUS TERMS ARE AVAILABLE  
FROM WHOLESALERS IN RETURN  
FOR DISPLAY SERVICES. ATTRACTIVE  
SHOWCARDS AVAILABLE ON REQUEST.

manufactured by



**MAY & BAKER LTD**

MA249

distributors

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD., DAGENHAM

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# *Pride of Place.....*



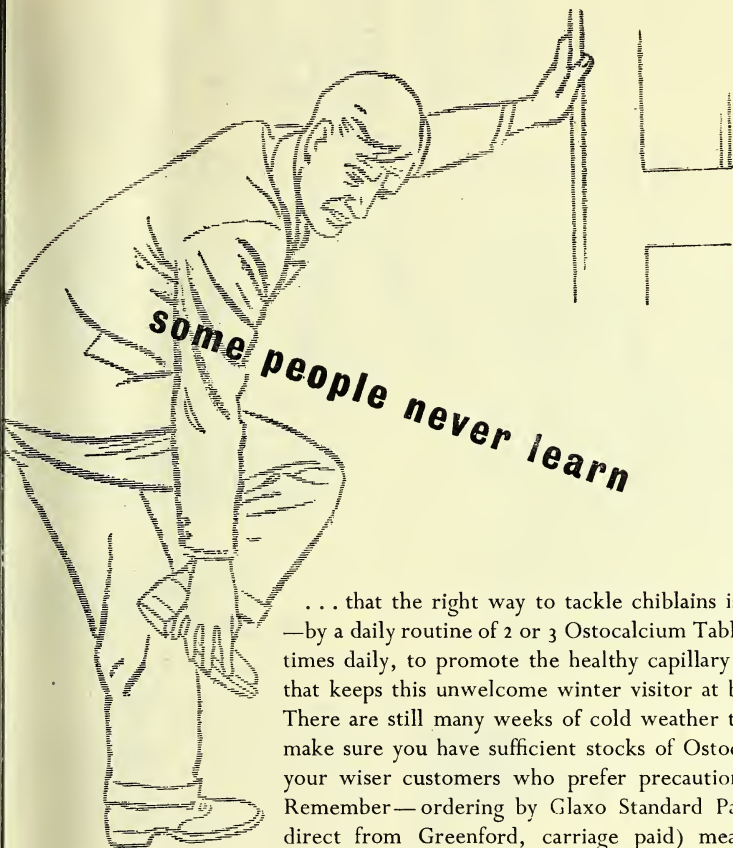
*Gifford, East Lothian.*

## **T.&H. SMITH LTD.**

*Manufacturers of Fine Chemicals and Pharmaceutical Preparations*

APIOL • ARECOLINE • ATROPINE • BRUCINE • CANTHARIDIN • CAPSICIN  
CHRYSAROBIN • CODEINE • DIACETYLMORPHINE • EPHEDRINE • ERGOTIN  
ETHYLMORPHINE • GINGERIN • HOMATROPINE • HYOSCYAMINE • LEPTANDRIN  
MAGNESIUM TRISILICATE • METHADON • MORPHINE • PAPAVERINE  
PHYSOSTIGMINE • PICROTOXIN • PILOCARPINE • SANTONIN • STRYCHNINE

**EDINBURGH • SCOTLAND**



... that the right way to tackle chiblainis is *in advance*—by a daily routine of 2 or 3 Ostocalcium Tablets,\* three times daily, to promote the healthy capillary circulation that keeps this unwelcome winter visitor at bay.

There are still many weeks of cold weather to come, so make sure you have sufficient stocks of Ostocalcium for your wiser customers who prefer precautions to pain. Remember—ordering by Glaxo Standard Parcels (sent direct from Greenford, carriage paid) means prompt delivery, display outers *and* extra discount.

## OSTOCALCIUM TABLETS

*Trade Mark*

50, 2/3 + 7d. tax (20/3 net per doz.); 100, 4/- + 1/- tax (36/- net per doz.)

Parcel No. 1. 2 doz. x 50 tablets - £1.16.0. (+ 13/6. tax)

Parcel No. 2. 1 doz. x 100 tablets - £1.12.0. (+ 12/- tax)

\* Each contains: 125 milligrams calcium • 500 units vitamin D





# The facts about Glucose

The term **Glucose** is in practice a general description rather than a precise one. It is applied to medical preparations containing additives which may not always be wanted and to commercial products of varying degrees of refinement. To identify Glucose in its purest form, and only in this form, the term Dextrose is used.

**Dextrose**, as found in the blood and tissues, is the sugar into which the body converts all carbohydrates for use as a source of immediate energy.

**Dextrosol** (pure medicinal Glucose, i.e. Dextrose) is offered to the public by the actual manufacturer—the Pharmaceutical Division of Corn Products Company Limited.

*Dextrosol is prepared in two convenient forms :—*

## **Dextrosol Powdered Glucose**

Contains no additives of any kind. A valuable source of extra energy for athletes and all who lead an active life. Should be prescribed whenever a patient needs sugar without digestive effort. Packed in 1 lb. cartons.



## **Dextrosol Karo Glucose Syrup**

for Infants and Children

An appetising blend of pure Glucose and selected carbohydrates, carefully balanced to provide the ideal sugar addition to the milk diet of artificially-fed infants. Of special value in nutritional disorders. Packed in 1 lb. tins.



*For full information about*

# DEXTROSOL

BRAND

## Glucose Products

*you are invited to write to the Pharmaceutical Division of CORN PRODUCTS COMPANY LIMITED  
Wellington House, 125-130 Strand, London, W.C.2. A Member of the Brown & Polson Group.*

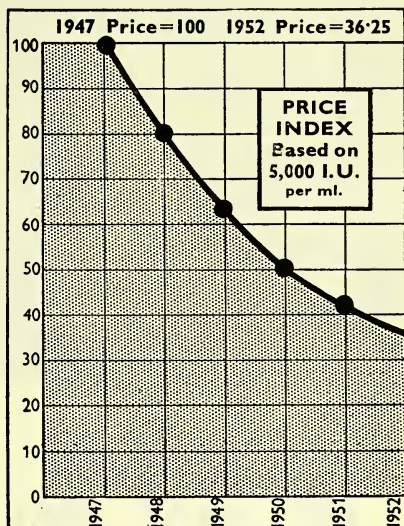


# HEPARIN

## PRICES

### REDUCED

### AGAIN!



SINCE THE WAR, despite the rising costs of raw materials and labour, the price of PULARIN (HEPARIN-EVANS) has been reduced by 64% as illustrated. The latest price reduction is operative from February, 1952 and is due to increased production and manufacturing economies.

## PULARIN

TRADE MARK

### (Heparin-Evans)

*Rubber capped vials of 5 ml. containing 1,000, 5,000 and 25,000 i.u. per ml. Containers of 100,000 i.u. dry powder. Heparinised tubes containing 100 i.u. of Pularin. Boxes of 3 tubes.*

PULARIN IS MADE IN ENGLAND BY

**EVANS MEDICAL SUPPLIES LTD**

5, KE, LIVERPOOL 19, AND 50 BARTHOLOMEW CLOSE, LONDON, E.C.1

ESTABLISHED 1878

*Labels -  
Cartons -  
Envelopes -*

**& EVERY DESCRIPTION  
OF MEDICAL PRINTING**

**ALF. HARRISON & SONS**  
*Chemists' Printers*  
**BURLEY ROAD, LEEDS, 4.**

TELEPHONE - LEEDS 52668 - 9    TELEGRAMS - "IDEAS LEEDS"

# Cephos sells!

backed by forceful and continuous  
advertising

## ★ SPOT NEWS

Retail Prices—8 Powders  
or 16 Tablets, 1/8d. - 21  
Powders or 42 Tablets  
3/11d. - 110 Doses, Pow-  
ders or Tablets, 20/-  
2 doses for 5½d.

**In Tablet  
or Powder  
form**

Trade enquiries  
to:

**Cephos Ltd  
Blackburn**



©T1

## YOU know they're good!

EVAN WILLIAMS SHAMPOOS are, as ever, a consistent selling line and one that pays for displaying. You know too, it has always been our policy to ensure stockists a square deal and a very generous profit. Keep one of our Display Packs on your counter... they, plus our publicity, will do the selling for you.

*Evan Williams*

**SHAMPOOS**



**SHOW THEM  
AND YOU'LL  
SELL THEM**

EVAN WILLIAMS CO., LTD. Sales Dept. Aintree Rd., Perivale, Mdx.

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## A Reminder!

Now is the time to remind your customers about their second course of ESOBACTULIN—if they are to remain free from colds this winter. This attractive shelf display does the trick for you. Occupying little space it is bringing large sales.

Send for YOURS to-day!

DISPLAY NOW AND GET RESULTS

Supplies of pocket calendars for counter distribution are also available on request.

**SOUTHON LABORATORIES LIMITED**  
84/88, UPPER RICHMOND ROAD, LONDON, S.W.15



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## The problem was to provide

### soluble aspirin in stable tablet form

Aspirin is acidic, sparingly soluble, and for many subjects a gastric irritant. By contrast, its calcium salt is neutral, soluble and bland.

Unfortunately, however, calcium aspirin as ordinarily presented is unstable, and thus, sooner or later becomes contaminated with the breakdown products, acetic and salicylic acids. In 'Disprin' the problem

of providing calcium aspirin in stable and palatable form has been solved. Extensive clinical trials show that Disprin in large dosage and over prolonged periods can be tolerated without the development of gastric and systemic disturbances, except in cases of extreme hypersensitivity.



**DISPRIN** REGD

*Stable, soluble, palatable calcium aspirin*

Clinical sample and literature supplied on application

## THE CHEMOTHERAPY OF TUBERCULOSIS

# Quantity DEMANDS Quality

The daily dosage of P.A.S. varies between 12 grammes and 18 grammes, but in all cases it is exceptional in the *large amount taken* and the *length of treatment*. Purity is recognised as of importance even in drugs given in a dose of 0.01 grammes. How much more vital is it when 18 grammes is taken every day for many months? In the manufacture of 'PARAMISAN SODIUM' purity is the over-riding consideration.

Therefore dispense

## 'PARAMISAN SODIUM'

TRADE MARK

BRAND

SODIUM para-AMINOSALICYLATE

FOR ORAL ADMINISTRATION:

POWDER · TABLETS · GRANULES ·

**'PASHETS'**

OTHER FORMS AVAILABLE: AMPOULES · JELLY · CREAM



MT113

HERTS PHARMACEUTICALS LTD., Welwyn Garden City, Herts.

**COX of BRIGHTON offer years of specialized  
experience in PILL & TABLET making**

**CONTRACTORS TO H.M. GOVERNMENT**

**Arthur H. COX & Co., Ltd.**

**Manufacturing Chemists Since 1839  
BRIGHTON, 7, SUSSEX, ENGLAND**

**Every description and in any quantity  
FOR HOME AND EXPORT MARKETS**

**D & W GIBBS (U.K) LTD**

**\***

***NEW RETAIL PRICES***

S.R.....1'8 and 2'6

Dentifrice.....11d

Astral Skin Cream.....(*large*) 2'6

Californian Poppy Perfume.....2'9 and 8'6

Spraygloss.....6'9 and 3'6

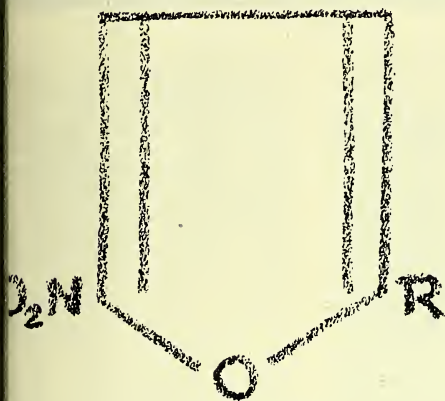
**Other products—no alteration**



NEW VETERINARY



PRODUCT



for surface infections

'Furacin' Dressing Veterinary and 'Furacin' Dressing Veterinary with Anaesthetic are issued in 4-oz. jars. Trade price 97/2 per dozen, with Anaesthetic 108/- per dozen. Retail price 13/6 each, with Anaesthetic 15/- each, including purchase tax.

*Obtainable from your usual supplier*



FVT101

**FURACIN  
DRESSING  
VETERINARY**

**MENLEY & JAMES, LIMITED**  
COLDHARBOUR LANE, LONDON, S.E.5

'Furacin'\* Dressing (British patents 627845 and 649027) is manufactured by MENLEY & JAMES, LTD. (registered users of the British trade mark 662699\*) under licence from the owners, EATON LABORATORIES INC.

'Furacin' is an entirely new antibacterial agent with a wide range of action—and this includes gram-negative as well as gram-positive organisms.

'Furacin' Dressing Veterinary is effective because its special base dissolves in wound exudates and the therapeutic agent—'Furacin'—is active in the presence of blood and serum. For superficial infections where itching and pain are predominant 'Furacin' Dressing Veterinary with Anaesthetic is indicated.

*Full information will be sent to pharmacists on request.*

# TK's MONTHLY

## To friends Old and New

The heading T.K.'s Monthly will recall memories for old friends in the trade and we hope its revival with the help of the "Chemist and Druggist" will interest many new ones. We feel that we cannot begin better than by repeating in full the "Statement of Policy" which appeared in T.K.'s Monthly for June 1935. The intervening years, with all their difficulties, have served to confirm the principles which have guided this Company throughout its long history.

"No business can achieve lasting success unless its transactions are governed by carefully determined considerations constituting the policy of the House. The policy of this House has always been to supply to the public, through the chemist, proprietary and non-proprietary articles of the highest standard of purity, reliability and all-round excellence. The experience of many years has enabled us to fix for every product a definite standard of quality which is only attainable by the use of the finest raw materials together with the utmost care and precision during manufacture. No pains are spared to ensure that every batch of everything we issue is up to this standard. No product ever leaves the Vale of Bardsley which is not the best of its kind procurable. Each new Kerfoot line undergoes prolonged and thorough tests in the laboratories before it is finally launched and improvements are continually being effected in products of long standing, either by the use of the very latest design of plant or still more up-to-date methods of manufacture.

"NIL MAGNUM NISI  
BONUM".

## PENICILLIN LOZENGES

In addition to our standard B.P. Penicillin Lozenges we have recently introduced pleasantly flavoured and attractively coloured Lozenges of the same strength (1000 units in each). Issued in the well-known dispensing pack, at standard prices, they have made an immediate appeal.

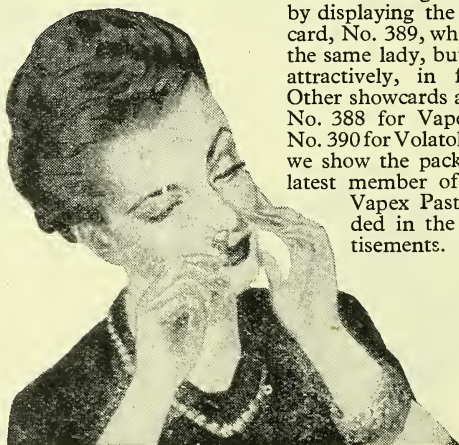
Orders should specify "coloured and flavoured".

## NEW VAPEX ADVERTISEMENTS

A wide-spread scheme of Press Advertising is now in operation in leading weekly and monthly periodicals, including—*Britannia & Eve, Everywoman, Punch, Spectator, Country Life, Sphere, Illustrated London News, Home Chat, Home Notes, Woman's Journal, Weldon's, Tatler, Sketch, Queen, Countryman, John O' London's, Home and Country.*

A prominent feature is the 1952 version of the Vapex Girl using the Vapex Inhaler.

Pharmacists can link up with this advertising very profitably by displaying the new showcard, No. 389, which portrays the same lady, but even more attractively, in full colour. Other showcards available are No. 388 for Vapex Inhalant No. 390 for Volatol. Opposite, we show the package for the latest member of the series, Vapex Pastilles, included in the new advertisements.





# Newsletter



## POPULAR PASTILLES IN NEW PACKS

Our latest list of Pastilles and Lozenges was published only a short time ago but it was soon out of date. We have since issued new packings which promise to become very popular indeed.

## FRIAR'S BALSAM PASTILLES

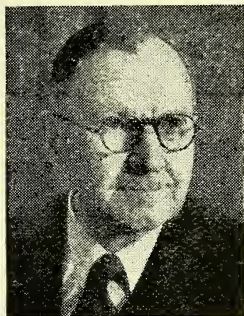
Friar's Balsam Pastilles are now available in 2 oz. tins with exceptionally attractive labels in convenient and colourful outers of 1 doz. Hitherto our Friar's Balsam Pastilles have been issued only in bulk in show jars each containing 5 lb.



## FIFTY YEARS AT BARDSLEY VALE

The commemorative book which we published some time ago ran into a second edition and we still have a few copies left. The chapter headings "Looking back", "Looking round" and "Looking forward" indicate the nature of the contents. There are several pages of illustrations in colour. If any reader has not seen it we should be pleased to send a copy on request, either direct or through our local Representative.

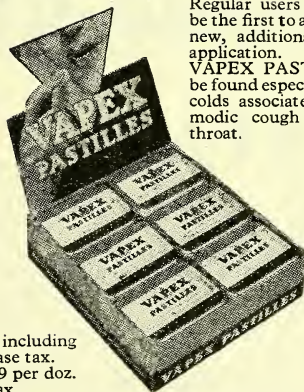
## THIS MONTH'S PERSONALITY



Mr. E. F. PEARSON

We understand that in the diplomatic services the senior member of the corps is known as the *doyen*. This month we give pride of place to our own senior Ambassador. Mr. Pearson joined in 1909 and after a short term in North Wales he has represented the Firm in London for the whole of the intervening period, gaining the friendship and esteem of innumerable customers.

*A new product—  
with a well-known name*



Regular users of Vapex will be the first to appreciate this new, additional method of application. VAPEX PASTILLES will be found especially useful for colds associated with spasmodic cough or irritated throat.

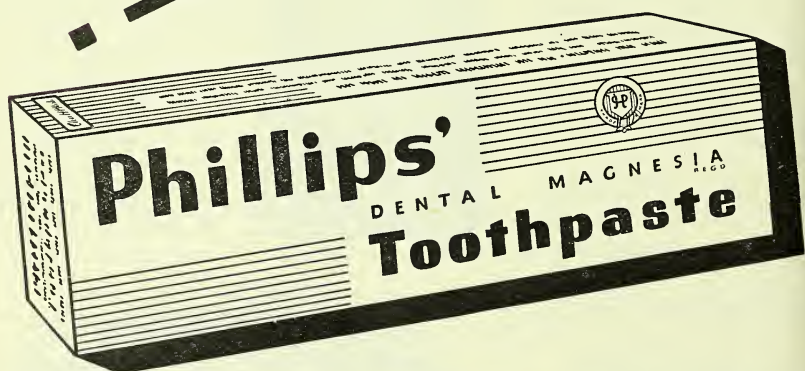
Retail 2/- including  
purchase tax.  
Trade 13/9 per doz.  
plus tax.  
Issued in display  
outers of 1 doz. tins.

**THOMAS KERFOOT & Co. LTD.**

VALE OF BARDSLEY LANC. AND BARDSLEY HOUSE LONDON N.1.



# SPECIAL ANNOUNCEMENT



## PRICES UNCHANGED

**RETAIL**      **1/6 & 2/3**  
INC. TAX

**TRADE**      **10/8 & 16/4** DOZEN  
(TAX EXTRA)

*Our National Advertising will feature prominently  
the retention of existing prices*

**FOR CHEMISTS**



**DRUGS**

**SUNDRIES**

*Manufacturing Chemists*

**PILLS • TABLETS  
PROPRIETARIES**

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)

BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

ATTRACTIVE

**LABELS**

THOMAS, WAIDE & SONS LIMITED  
KIRKSTALL HILL • LEEDS 5  
KNOWN ALL OVER THE WORLD

THOMAS

**WAIDE**

E' SONS LTD

PRINTERS & LITHOGRAPHERS

OVER

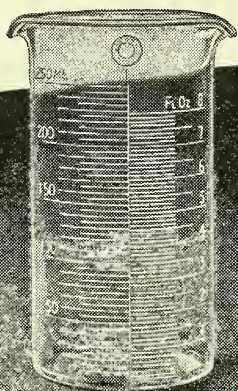
**70**

YEARS

**CARTONS**

AND OTHER PRINTED MATTER

A New Beaker  
in  
**'PYREX'**  
Registered Trade Mark Brand  
Glass.



'PYREX' Brand Graduated Glassware is supplied only through Laboratory Furnishers, but illustrated catalogue and two free copies of our Chemist's Notebook will be sent direct on application to us.

USE THIS COUPON.

To Messrs. James A. Jobling & Co. Ltd.

Please send us illustrated catalogue of 'PYREX' Brand Laboratory and Scientific Glassware, and two copies of your Chemist's Notebook as above.

Name .....

Address .....

IN all work which entails the precise measuring of liquids, you can place the utmost reliance in 'PYREX' Brand Graduated Glassware. The accuracy with which calibrations and graduations are made is an assurance of correct volumetric capacity.

For everyday laboratory work 'PYREX' Glassware is graduated to N.P.L. Class B Standard, but for more meticulous analysis, or intricate research work, N.P.L. Class A can be supplied at a reasonable extra cost.

Our photograph shows a graduated double-spouted Beaker with double-scale reading registering up to 250 mls. and 8 fluid ounces.

This Beaker is one of a series of Graduate Beakers which are a new addition to our range of Laboratory Glassware and carry with it the same guarantee of quality and accuracy as all other 'PYREX' Glassware. Its sturdy strength, made possible by the low coefficient of expansion of  $3.2 \times 10^{-6}$  per degree C, keeps replacement costs down to a percentage far less than that of ordinary glass.

That's why 'PYREX' Glass is so economic.

**'PYREX'**

Regd Trade Mark

BRAND

Laboratory and  
Scientific Glassware

JAMES A. JOBLING & CO. LTD.,  
Wear Glass Works, SUNDERLAND.



# Sylvia

SANITARY TOWELS

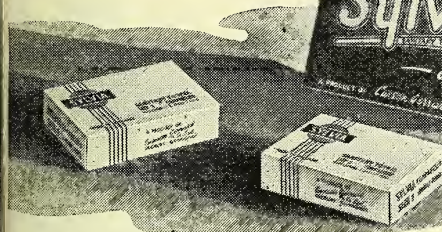
THE VALUE - FOR  
MONEY TOWELS  
NOW READILY  
AVAILABLE



**A NEW**  
**SHOWCARD**  
**SIZE 10 $\frac{1}{2}$ " x 6 $\frac{3}{4}$ "**

Beautifully Litho-  
graphed in full colour

(NATIONALLY  
ADVERTISED IN  
WOMEN'S  
JOURNALS)



Please your customers and ensure ever-increasing repeat business by stocking, displaying and selling "Sylvia" Towels.

## PRICES:

### "SYLVIA" SANITARY TOWELS

Packets contain one dozen Towels with stitched loop ends for easy attachment.

Size 0 ...	2/5 $\frac{1}{2}$ d pkt.	22/3d dozen pkts.
1 ...	2/9	24/11
2 ...	3/4	28/3
3 ...	4/-	33/1

### "SYLVIA" MATERNITY PADS

with loop ends. Size 12".

Pkts. of 12 pads 4/4 pkt. 35/1 " "

### "SYLVIA" COMPRESSED TOWELS

each in dainty carton.

Size 0 ... 5d pkt. 44/- gross.

PRODUCT OF

**Cuxson Gerrard & Co. Ltd.**  
**OLDBURY BIRMINGHAM**

PHONE: BROADWELL 1355 (4 LINES)

## Van Delivery Areas

Our Vans deliver regularly in and around the following districts:

AYLESBURY	LONDON
BANBURY	MALVERN
BARRY	MANCHESTER
BATH	MANSFIELD
BICESTER	MERTHYR
BIRMINGHAM	NEWPORT MON.
BLACKBURN	NOTTINGHAM
BOLTON	OLDHAM
BRADFORD	PRESTON
BRIDGEWATER	ROTHERHAM
BRISTOL	RUGBY
CARDIFF	SHEFFIELD
CHELTENHAM	SHREWSBURY
CHESTERFIELD	STAFFORD
COVENTRY	STOKE
DERBY	STRATFORD-ON-AVON
DONCASTER	SWANSEA
GLOUCESTER	TEWKESBURY
HEREFORD	WARRINGTON
HUDDERSFIELD	WESTON-SUPER-MARE
LEEDS	WIGAN
LEICESTER	WOLVERHAMPTON
LIVERPOOL	WORCESTER

# Certor

## HOUSEHOLD THERMOMETERS



### PACKED IN CARTONS

Certor Household Thermometers, in four sizes, are good reliable thermometers. They are packed in individual buff printed cartons.

				<i>Doz.</i>
No. 1	..	..	..	24/-
No. 2	..	..	..	30/-

				<i>Doz.</i>
No. 3	..	..	..	32/-
No. 4	..	..	..	36/-

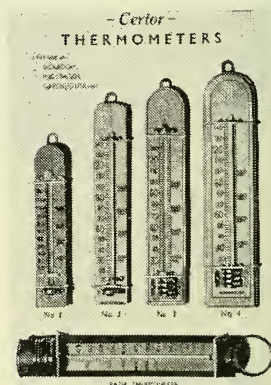
Bath Thermometers (in Jap case) 45/-

### PRINTED DISPLAY CARD

Each size of household thermometer, together with bath thermometer, is available on printed display card, as illustrated.

**Price 13/11 per card**

Certor Household Thermometers—for the Sick Room, and for use in incubators and greenhouses.



*All goods sent carriage paid in free packages.  
Urgent orders receive prompt attention.*

**MACDONALD & SON LTD.**



**StaffAllens**  
FOUNDED 1893

# DRUG EXTRACTS

CASCARA · GLYCYRRH. · IPECAC.  
NUX VOMICA · ERGOT  
etc., etc.

Concentrated extracts for the manufacture of  
Tinctures · Liquid Extracts · Infusions etc.  
Granulated Extracts · Powdered Extracts



The close proximity of fields and factory on our Long Melford farms assures retention of the full therapeutic properties of the drugs.





# takes the spi sensations

## PRICE

Each Powder Bowl retails at the popular price of 5/- and because they're manufactured in *millions* these bowls cost no more than ordinary boxes. Inside, is the superb new petal smooth, nylon-sifted Goya Face Powder with wonderful covering power.

## ADVERTISING

Like all new Goya products this Powder Bowl is going to be launched with a BANG! On March 1st millions of women readers will be bombarded with advertisements in mass circulation newspapers and magazines, as well as in fashion publications such as Vogue, Harper's Bazaar, etc.

## DISPLAY

To link up with the advertising we'll supply you *free* with a colourful outer, a display stand, a smart, easy-to-handle Face Powder Tester Stand and a quantity of two-colour price tickets. On March 1st give the Goya Face Powder Bowl some really *prominent* display!



GOYA'S FACE POWDER in this pink

moulded Powder Bowl is *entirely* new yet something women have been wanting for *years*. No guess-work here! Goya conducted an international Market Survey and women everywhere said they would infinitely

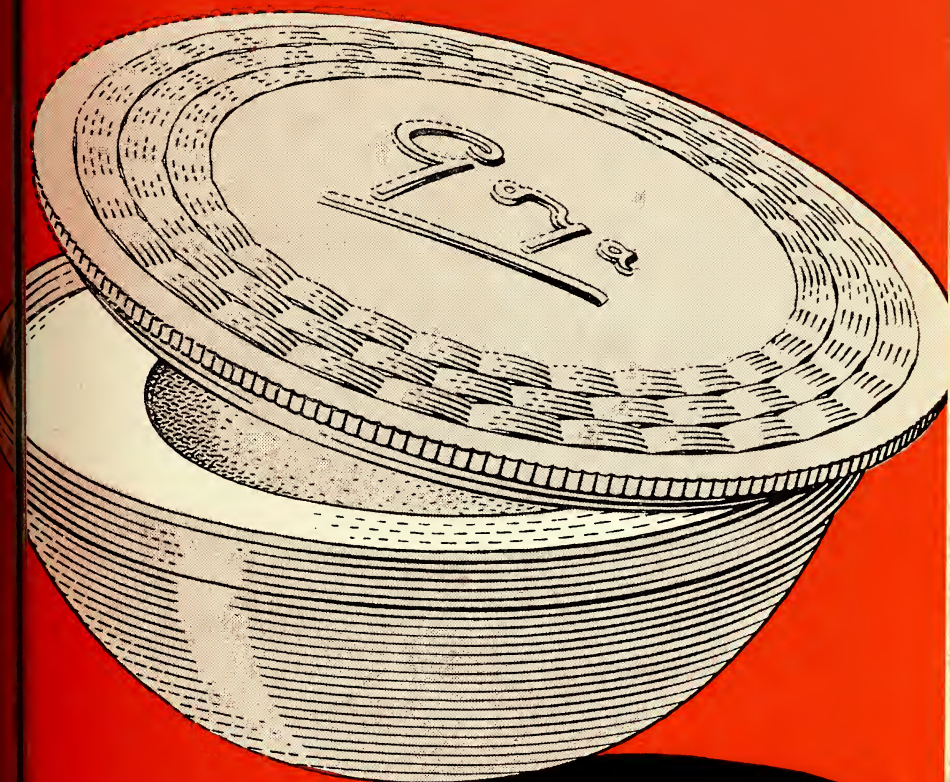
*prefer* face powder in this bowl instead of in a cardboard box. *W*ould blame them

## SALES

Women won't put up with old-fashioned cardboard boxes once they've seen this beautiful new Powder Bowl and the immediate demand will mean a bigger-than-ever turn-over for you!

# FACE POWDER BOWL

# Put of powder with this new packaging idea!



## HERE'S THE NEW GOYA FACE POWDER BOWL

jeweller-designed, unspillable, and containing the superb

new Goya Powder. The retail price is just 5/-.

Get your stocks in before the March launching!

GOYA, 161 NEW BOND STREET, LONDON, W.1

RETAIL PRICE 5/-

WHOLESALE PRICE 24/- PER DOZEN



**THEOPHYLLIN 'RHODIA' Brand**

**AMIDOPYRINE 'RHODIA' Brand**

**QUININE SALTS 'AMSTERDAM'  
& 'MAARSSSEN' Brand**

**ICHTHAMMOL B.P. 'SAUROLO' Brand**

**ZINC OXIDE B.P. 'BARKING'**

**SPOT DELIVERY OR ON CONTRACT**

**R. W. GREEFF & Co., Ltd.**

**12 FINSBURY CIRCUS, LONDON, E.C.2**

Telegrams: GREEFF AVE LONDON.

Telephone: LONDON WALL 5241



**"SANATOGEN"  
TONIC WINE**

*Puts you  
on top of  
the World*

**Sanatogen**  
TONIC WINE

"SANATOGEN" Tonic Wine is an admirable restorative for it combines the "pick-me-up" qualities of a rich, full-bodied wine with the active tonic properties of "SANATOGEN" Nerve Tonic.  
The word "SANATOGEN" is a registered Trade Mark.

**8/-**  
PER BOTT.  
**4/6**  
HALF BOTT.

# 46 MILLION APPEARANCES

during January & February this advertisement will appear 46,000,000 times in national newspapers, Evenings, Sunday papers, Periodicals and Women's Magazines besides 550 local papers. Cash in on this enormous sales drive and stock up with

## "SANATOGEN" TONIC WINE

Introducing a **New Line**  
giving **Big Profit**

**OWBRIDGE'S**

**RAPID ACTION**

**ASPIRIN**

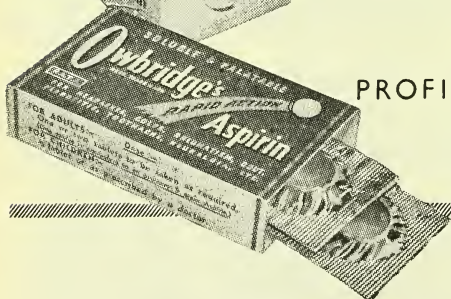
**SOLUBLE AND PALATABLE**

**PROFIT TO WHOLESALERS**

**12%-20%**

**PROFIT TO RETAILERS**

**42%-62%**



Write for detailed Price List

W. T. OWBRIDGE LIMITED · OSBORNE STREET · HULL

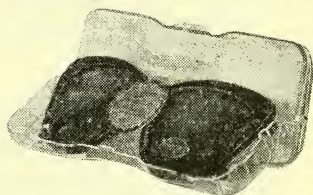


# *This Outstanding Display Stand* **FREE** *with* **Stratton SUNGLASSES**

**STRATTON SUN GLASSES** offer you Quality, and as is appropriate to their high standing, this handsome Display Stand is offered **FREE** with every cased dozen. It is made in Transparent Plastic Material to hold four cases of Stratton Sun Glasses in an attractive cascade array that will catch the customers' attention. It is surmounted by a colour showcard and measures 14 in. high overall. A powerful silent salesman—be sure you secure one.



*The illustration on right shows the carrying case, in clear plastic, in which every pair of Stratton Sun Glasses is supplied. It also shows how the case can be used as a display piece. Stratton Sun Glasses retail from 10/6 upwards.*



## **ASK YOUR WHOLESALER**

*Manufacturers :*

**JARRETT, RAINSFORD & LAUGHTON LIMITED,**  
**LOWER ESSEX STREET, BIRMINGHAM, 5.**

London Office: 100 Dean Street, W.1.



The Silky Soft Absorbent  
Tissue that is preferred

*Vanity*

**HANKIE TISSUES**  
RETAILS FROM 1/6d.

Tissues have come to stay—it's just a case of selling the BEST to make and keep customers. VANITY are produced by THE PAPER SPECIALISTS — packed attractively and come to you in display cartons worth of your windows and counters.

**POCKET PACK** for Travel, School, etc.  
(24 large size White Tissues) 5d.

**BOUDOIR CARTONS** (100 in White or assorted Pastel colours) or Cellophane Wrappers 100 and 180; assorted shades if required.

**FREEDER BROTHERS PAPER MILL**  
BRIMSDOWN, ENFIELD, MIDDLESEX

Telephone : Howard 1847 (3 lines)  
Telegrams : Svlkocrebe, Enfield, Middlesex



**CHEMISTS' SUNDRIES (PRESTON) LTD.**

For  
**SURGEXA**

REGISTERED BRAND  
SUPER CREPE BANDAGES  
DRESSINGS, SUNDRIES and PATENTS.

24 HOUR DELIVERY SERVICE

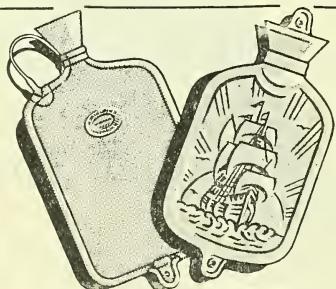
306-308 STATION ROAD, BAMBER BRIDGE, PRESTON  
TELEPHONE: PRESTON 85403

**ALTRA** High Potency  
**COD LIVER OIL CAPSULES**

- 1 Vitamin A with additional Vitamin
- 2 Vitamin E additional to Vitamins A &
- 3 Vitamins E & K additional to Vitamins A &

Guaranteed by 50 years' experience in the production of COD LIVER OIL CAPSULES

**ALTRA Pharmaceuticals**, manufactured by  
**ISAAC SPENCER & Co. (Aberdeen) Ltd.**  
77 South Audley St., London, W.1 Tel: GROSVENOR 44



**Moulded & Hand Made  
HOT WATER BOTTLES**

Hospital Sheetings • Air and Water Beds  
Air Cushions, Douches, Ice Bags etc.

**Wm. CURRIE & CO (Rubber Mfrs) LTD**  
Established since 1869

**Caledonian Rubber Works, Edinburgh, 11**

**LONDON OFFICE : 2 Stothard Place, Bishopsgate, London, E.C.2**

# CARNEGIE

*Manufacturers of Cinchona Alkaloids*



## QUININE and SALTS

ALKALOID

BISULPHATE

DIHYDROCHLORIDE

HYDROBROMIDE

HYDROCHLORIDE

SALICYLATE

SULPHATE

B.P. 1932 & B.P. 1948

TANNATE

TOTAQUINE

**CARNEGIE QUININE WORKS LTD**

WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

TELEGRAMS: CARNECHEM, WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 lines)

‘A CARNEGIES OF WELWYN’ COMPANY



YOU CAN RECOMMEND  
WITH CONFIDENCE !!

## LOSALL'S TONIC NERVE FOOD

*Retails 3/9*

*Price 22/6 doz. + tax*

LOFTHOUSE & SALTMER, LTD. *Manufacturing Chemists, HULL*

## NATIONAL FORMULARY 1949

**PASTILLES  
and LOZENGES are  
always in ample  
supply from**

**ROBERT GIBSON  
& SONS LIMITED  
MANCHESTER & LONDON**

*Manufacturers of*  
"MECCA" COUGH PASTILLES  
and  
GIBSON'S CHOCOLATE WORM CAKES

## NET FOR VENTILATION *You need no stock*

Lastonet surgical stockings are sold for you through NATIONAL & MEDICAL JOURNAL VENTILATING. All you need is a supply measurement forms which we will gladly send to you together with display material and particulars of trade discount. Write today



LASTONET PRODUCTS LTD. Carn Brea, Redruth, Cornwall



## THIS "DISPENSER" WILL INCREASE YOUR SALES

In time of  
pain

# 'CODEMPRIN'

TRADE MARK



Gives  
speedy and  
effective  
relief

1/3 for 10

A BURROUGHS WELLCOME & CO. PRODUCT

Your customers will be immediately attracted by the 'Codemprin' dispenser—outer of 2 doz. tubes and by the new showcard.

**A bonus of 13 to the dozen is offered on orders of 2 dozen.**

★ Its price (1/3 for the tube of 10), its size (slips into handbag or pocket) and its effectiveness (contains four active ingredients), give 'Codemprin' a special appeal to the customer for whom aspirin is "not enough".



# 'CODEMPRIN'

TRADE MARK



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

IT'S WANTED...  
IT'S NEEDED...  
IT'S HERE!

**GAUNTLET**

*The ONLY ALL-PURPOSE*

**BARRIER  
CREAM**

*For WET and DRY Use*

GAUNTLET gives complete protection against grease, grime, fruit and vegetable stains and ALL skin-irritants. It is an absolute safeguard against the sore hands and dermatitis which frequently result from the use of synthetic detergents and it is equally effective for wet and dry work. GAUNTLET has been tested in industry, acclaimed by the housewife and endorsed by the medical profession. Non-greasy and non-sticky, it enables you to meet the widespread demand for a Barrier Cream that is not only amazingly efficient but really pleasant to use. Place a trial order now—one cream meets all requirements for either a wet or a dry Barrier Cream. Already customers are asking for a reliable Barrier Cream—GAUNTLET advertising will make sure that they ask YOU for GAUNTLET.

*Obtainable from your usual wholesaler or direct.*

IN  
**3/-**

**TUBES**

*Details of Generous  
Trade Discounts  
on Request*

*Donald Warren Ltd.*  
7 LONDON ROAD • ST. ALBANS • HERTS  
Telephone : ST. ALBANS 103





*Just to remind you*

Ferbelan, the new B.D.H. tonic for children meets the needs of the underweight and energetic child as well as of the child who is overweight and lethargic — it provides vitamins of the B group to assist metabolism with vitamin B<sub>12</sub> for its tonic and growth-promoting action and iron for the formation of hæmoglobin.

## ‘FERBELAN’

Contains in each teaspoonful: iron and ammonium citrate 3 grains, vitamin B<sub>1</sub> 2 mg., nicotinamide 5 mg., riboflavine 0.5 mg., vitamin B<sub>12</sub> 2.5 micrograms.

Bottle of 4 fl. ozs.: Pharmacists 2/6; Retail 3/9

Bottle of 40 fl. ozs. for dispensing: Pharmacists 18/-

*Remember also*

## ‘MULTIVITE’

Vitamins A, B<sub>1</sub>, C, D<sub>2</sub>

In the new economical pack and new display carton

Bottle of 50 pellets — Pharmacists 2/4 Retail 3/6

## ‘LIVOGEN’

The well-known tonic combination of B vitamins and extract of liver BP

Bottle of 4 fl. ozs.: Pharmacists 3/4; Retail 6/1

Bottle of 16 fl. ozs.: Pharmacists 11/4; Retail 20/9

Bottle of 80 fl. ozs. for dispensing: Pharmacists 53/4

THE BRITISH DRUG HOUSES LTD LONDON N.1

Vit P/T/7





N.V. SOCIETEIT VOOR  
CHEMISCHE INDUSTRIE

**"KATWIJK"**

KATWIJK - AAN - ZEE  
HOLLAND

Producers of:

**CAFFEINE** AND SALTS

**THEOBROMINE** AND SALTS

**THEOPHYLLINE** AND SALTS

London Agents:

**GREYER, BRECHEISEN & CO., Ltd.**

BUSH LANE HOUSE, CANNON STREET,  
LONDON, E.C.4. Telephone: MAN 9030

Bombay Agent:

**STANDARD DRUG & CHEMICAL CO.**  
174 Hornby Road, Fort, Bombay

Calcutta Agent:

**H. D. NAG, 36 Beniatola Lane, CALCUTTA**

Madras Agent:

**THE DOLLAR CO., 337 Thambu Chetty St.,  
A G.T. MADRAS**

**JKL**

Agar Agar  
Aloes  
Cantharides  
Cascara Sagrada  
Cochineal  
Condurango Bark  
Ergot of Rye  
Grindella Herb  
Liquorice  
Lobelia Herb  
Papain  
Peppermint Oil  
Sabadilla Seed  
Sarsaparilla  
Wild Cherry Bark  
Witch Hazel Leaves  
and all other Botanicals,  
Gums, Waxes, Essential Oils  
and Spices

**JOHN KELLYS (LONDON) LTD.**

Gresham House, 24 OLD BROAD STREET, E.C.2

Telephone: London Wall 4882, 6585, 6586

Telegrams: "Ergotine, Stock, London"

Branches in New York and Hamburg

# GALLIC ACID PYROGALLIC ACID

(RESUBLIMED, PURE CRYSTAL AND TECHNICAL)

**AND DERIVATIVES**

WHOLESALE AND EXPORT ONLY

**J. L. ROSE, LIMITED, ABBEY ROAD, BARKING, ESSEX**

# TANNIC ACID

**AND DERIVATIVES**

(Bulk  
Supplies  
Only)

**THE BRITISH DYEWOOD COMPANY LIMITED**  
19 St. VINCENT PLACE, GLASGOW, C.1


# WHIFFEN AND GENATOSAN FINE CHEMICALS FOR INDUSTRY

*Uric Acid Pure • Uric Acid Technical • Allantoin  
Alloxan • Alloxantin • 8-Chloro-theophylline  
Substituted Thioureas*

**WHIFFEN & SONS LTD • FULHAM • LONDON • SW6**

Telephone RENown 3416

Telegrams: Whiffen, Walgreen, London



*Evans, Gadd & Co. of Exeter*

**MANUFACTURING CHEMISTS**

**Drugs, Galenicals, Packed Goods and Sundries  
for the Pharmaceutical Trade**

**Wholesale Distributors of Ethical Specialities and Proprietary Medicines**

*Regular van deliveries cover the West of England*



*Return of post service for urgent items*

**EVANS, GADD & CO., LTD., EXETER**

**ESTABLISHED 1790**

Telephone: Exeter 2278 (3 lines)

Telegrams: Gadd, Exeter

# CORK LINED SLEEVES

## CORRUGATED PULL-THROUGH BOXES

**Compressed Paper Packing Limited**

Horton Road - West Drayton - Middlesex

Telephone: WEST DRAYTON 2237

**Ammonium Carbonate**

**Chalk—Precipitated and Prepared**

**Cresylic Acid**

**Coal Tar Disinfectants**

**Emulsifiers**

**Magnesium Carbonate (Pond.)**

**Synthetic Detergents**

**Naphthalene**

**Toluene, Xylene**

**Zinc Oxide**

**DUNN BROTHERS'**

**SUCCRS. LTD.**

**1 BOOTH STREET, MANCHESTER**

*Established 75 years*

**GALE'S NUTRITIOUS TONIC**

# MORELIX

(Regd.)

**ESPECIALLY SUITABLE FOR  
CHILDREN  
AND DURING CONVALESCENCE**

*Contains Liquid Malt,  
Vitamins A & D, Hypophosphites  
and Virginian Prune.*

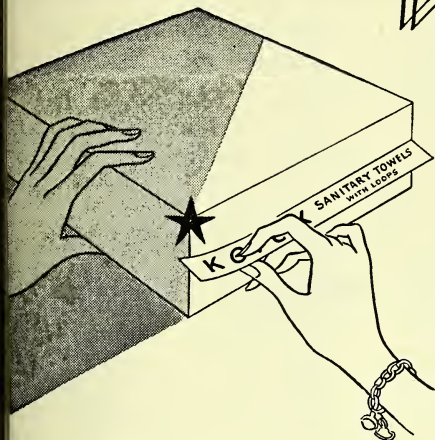
DREADNOUGHT



BRAND

**GALE, BAISS & CO. LTD.**  
274/276, ILBERTON ROAD S.E.1





*Women prefer*

# KOTEX

## SANITARY TOWELS

(WITH LOOPS)

Because demand exceeds supply,  
please do not blame your whole-  
saler should he be unable to  
meet your requirements.

★ *Simply remove the perforated strip and  
the plain box is ready for sale.*

ELLUCOTTON PRODUCTS LTD., 33/34 AYLMER PARADE, LONDON, N.E.

# EDGWARE

## SURGICAL SCISSORS

*Specialists in the manufacture of Fine  
Quality SURGICAL SCISSORS in  
Stainless Steel*

- ★ DRESSING SCISSORS
- ★ DISSECTING SCISSORS
- ★ MAYO'S SCISSORS

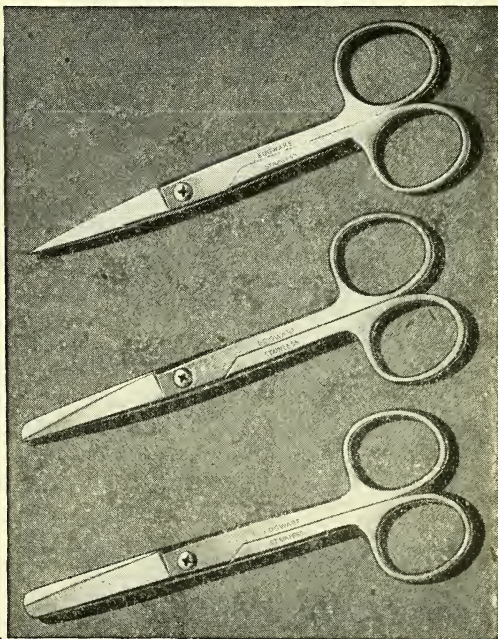
Best quality Sheffield Steel, expert craftsmen,  
test scientific methods of heat treatment and  
impering guarantee uniform high standard  
of quality.

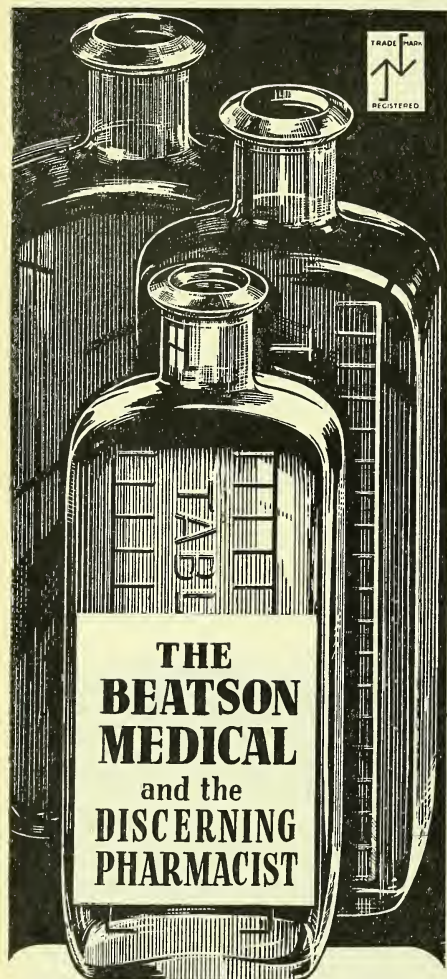
● *Wholesale enquiries invited.*

THE EDGWARE SURGICAL SCISSORS CO.  
HUMBER ROAD, LONDON, N.W.2

Telephone: GLAdstone 4902 & 3454

Cables: Hanedge, London





Recently developed and of modern design, the BEATSON MEDICAL fits the hand snugly. The vial lip for easy pouring, has been retained, sediment can be rapidly dispersed by shaking. With cork mouth or screw neck—white enamelled or black plastic caps.

★ Plain or Graduated,

Cork Mouth or Screw Capped

**BEATSON, CLARK & CO. LTD**  
MANUFACTURERS OF CHEMICAL AND MEDICAL GLASS  
ROTHERHAM Established 1751 YORKS

## WELL-KNOWN FIRM OF TOILET ROLL AND INTERLEAVED PACKET MANUFACTURERS

with large modern plant, will accept  
orders from Established Firms, at  
very keen prices for

## MEDICATED TOILET ROLLS

WEIGHT FROM 6 oz TO 12 oz

Highly glazed bands can be  
printed to customers own  
design at no extra charge.

**LIPTON'S PAPER MILLS LTD.**

Devonshire Works, Dukes Avenue,  
Chiswick, London, W.4

Telephone: CH15wick 3600 (8 lines)  
(Established 1898)

**BOTTLE CAPS**  
**WAGNER'S DRY AUTOMATIC**  
Best in quality and appearance  
**PROMPT — DELIVERIES**



**R.V. WAGNER**

Bushey Hall Garage, Bushey Hall Rd., Watford, Herts

## CANISTERS LTD

invite inquiries for

**SPIRALLY WOUND  
CARDBOARD TUBES**  
up to  $\frac{3}{8}$ " wall

**POSTAL TUBES AND  
TOILET ROLL CENTRES**  
also COMPOSITE DRUMS

**FIR ST. WORKS**

Heywood, Nr. Manchester







## HELP YOURSELF to MORE PROFITS

WITH

# 'SHOMORE' DISPLAY

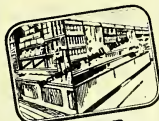
An attractive 'SHOMORE' display helps your customers to see more and buy more. Helps you to increase your turnover in consequence. Put in a single unit at first and build up as your profits grow.

WRITE FOR FREE BOOKLET:

"LOOK BEYOND YOUR WINDOWS"

**PARNALL & SONS LTD.**

LODGE CAUSEWAY, FISHPONDS, BRISTOL



LOOK BEYOND  
YOUR WINDOWS

## 'WEBSTER'S'

### STAINLESS STEELWARE

Specialists in modern equipment for manufacturers, i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Bogies, etc., etc. Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.



**ISAAC WEBSTER & SONS, LTD.**

BBEY WORKS, KIRKSTALL, LEEDS

Phone: 51580 Leeds. Grams: Isaac Webster, Kirkstall

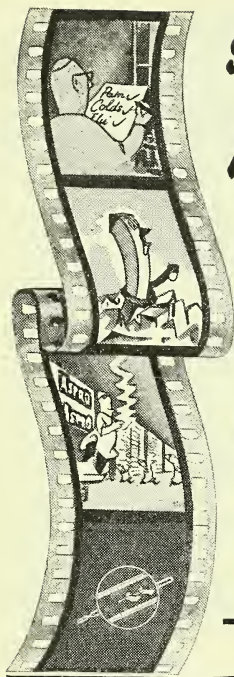
## Belfast Telegraph

The newspaper with the largest circulation in Northern Ireland. Read in the homes of the people throughout the whole of this important industrial and agricultural part of the UNITED KINGDOM

HEAD OFFICE:  
ROYAL AVENUE,  
BELFAST.

LONDON OFFICE:  
● 112 FLEET STREET,  
LONDON, E.C.4





# SHOWING IN 2000 CINEMAS

## FLU-ING SQUAD

THE NEW **ASPRO**  
COLOUR CARTOON FILM

"FLU-ING SQUAD" will be shown all over the country this winter. All the resources of modern colour-cartoon technique have been used in this film to combine good entertainment with a clear, powerful selling message. "FLU-ING SQUAD" really hits the imagination of the public—it's talked about and remembered—and all this gives a big stimulus to your 'ASPRO' sales.

**ASPRO**  
REG. TRADE MARK

**'ASPRO' FILMS AND FILMLETS ARE SHOWING  
TO OVER 9,000,000 PEOPLE A WEEK**  
**THESE FILMS MAKE SALES FOR YOU**  
*Display* **'ASPRO' NOW**  
**—AND GET THE MAXIMUM RESULTS**

Made by ASPRO LIMITED, Slough, Bucks

## Firm Favourites *with all the family*

Every woman wants bathtime luxury and day long freshness—sell her delicately perfumed mildly medicated Cuticura Soap and Talcum Powder. Many of your customers have a "problem skin"—Cuticura Ointment is the perfect answer.

Baby loves the soothing comfort of mildly medicated Cuticura Soap, Talcum, Ointment. Recommend Cuticura for chafing and nappie rash, and convince all careful mothers that nothing else will do for baby's tender precious skin.

Men customers are won by the smooth comfort of Cuticura mildly medicated Shaving Stick, in smart plastic container, and will return again and again for refills.

# Cuticura

MEDICATED & TOILET

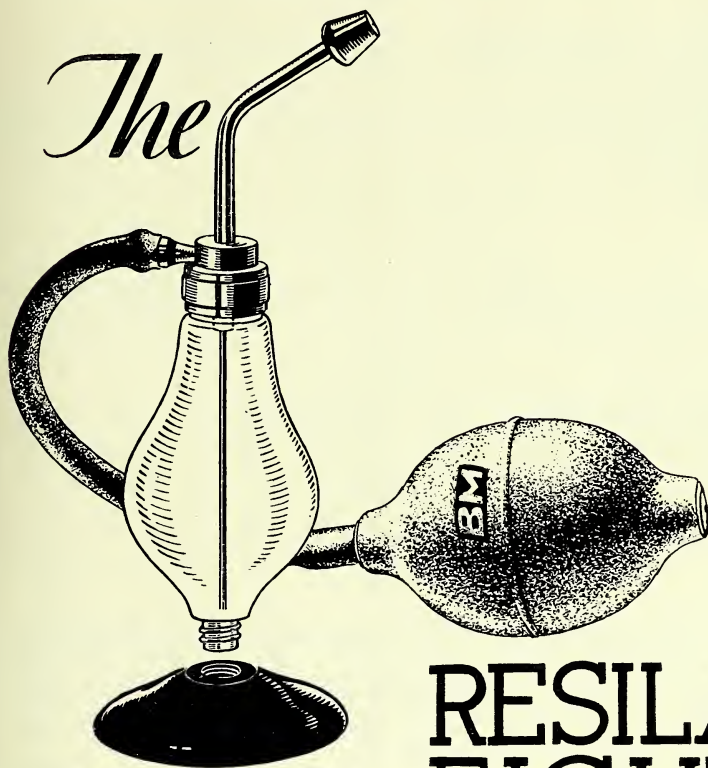
SOAP · OINTMENT · TALCUM · SHAVING STICK

### WISE CHEMISTS STOCK AND DISPLAY

THIS WIDELY ADVERTISED FAMILY RANGE—NOW IN ATTRACTIVE DISPLAY OUT

British Distributors: NEWBERRY & PHILLIPS LTD., 203 Victoria House, Southampton Row, London, W.C.1. Phone: HOL

Manufacturers: POTTER DRUG & CHEMICAL CORPORATION, 205-207 Victoria House, Southampton Row, London, W

*A BRITISH PRODUCT*

# RESILA EIGHT

**WHY AND HOW :—**It is impossible to blow a glass bottle with a wide base and a finely tapered inside to ensure the complete use of the contents. This Registered Spray provides the answer, the 2½ inch diameter base ensuring a firm stance, whilst the contents are used to the last drop. The Spray has a pleasing appearance, and spare bottles or bases can be supplied.

**WELL ADAPTED FOR N.H.S. SUPPLIES**

**PRICE 8/9 each**

**BRITTON MALCOLM & CO. LTD.**  
38 SOUTHWARK BRIDGE ROAD, LONDON, S.E.1. WATerloo 4874-6



**D E P E N D A B L E**



*Now Available  
to all Chemists*

'NIAGARA' Brand Blackcurrant Syrup is rich in Vitamin C and is thus specially suitable for children, invalids and nursing mothers. It contains not less than 20 mgms. Ascorbic Acid per fluid ounce, and sufficient is now available for all to be supplied.

Sole makers

**BARNETT & FOSTER LTD.**

NIAGARA WORKS · EAGLE WHARF ROAD · N.I.

Established in the Year 1858

*Calling Attention to the range of  
Twincor Unbreakable Plastic Ware*

YOU REMEMBER THE

**TWINCO FLEXIBLE BEAKER**

—the unique flexible Tumbler that still makes such sales. In lightweight, breakproof material. Showcard to each 2 dozen. No. 080. 10/- doz. No P.T.

NOTE ALSO THE—

**UNBREAKABLE TOOTH  
BRUSH CONTAINER**

No. 095. In translucent shades to match. 7/3 per dozen.



**The UNCRUSHABLE  
SOAP BOX**

No. 086. Can be stood on without breaking! Showcard supplied. 10/9 per dozen.



ALL supplied in matching shades of Peach, Natural & Blue

AS YOUR WHOLESALE

**JARRETT RAINSFORD & LAUGHTON LTD.**

Leominster Works, Lower Essex Street, BIRMINGHAM, 5, England.



# NATION WIDE ADVERTISING COVERAGE

NATIONAL AND PROVINCIAL PRESS, PERIODICALS,  
MAGAZINES, CINEMAS, POSTERS, ETC., FOR

## Cystex

(FOR RHEUMATISM, BACKACHE)

## Mendaco

(FOR ASTHMA, BRONCHITIS,  
HAY FEVER ATTACKS)

## Cystex

RETAIL PRICE PER  
UNIT (INC. P.T.)

Trial Size - - 2/2½  
Standard - - 5/-  
Economy - - 10/-

CHEMIST'S PRICE

PER DOZEN

Net + P.T.

15/9 5/3

36/- 12/-

72/- 24/-

## Mendaco

RETAIL PRICE PER  
UNIT (INC. P.T.)

Trial Size - - 3/1½  
Standard - - 7/6  
Economy - - 15/-

CHEMIST'S PRICE

PER DOZEN

Net + P.T.

22/6 7/6

54/- 18/-

108/- 36/-

*Supplies through your  
usual wholesaler*

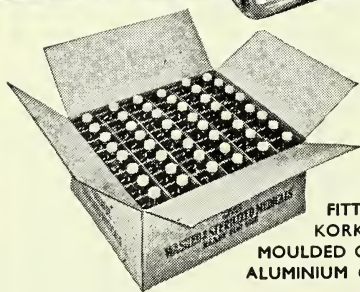
Other Knox  
products  
include  
**DIOTEX**  
**HYTEX**  
**NIXODERM**  
**KOLADYNE**



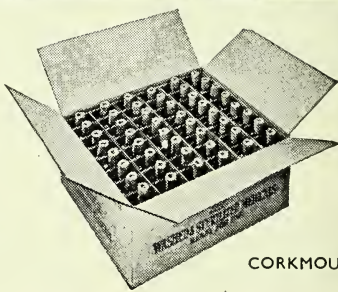
**KNOX LABORATORIES LTD., 29 DUKE STREET, ST. JAMES'S, LONDON, S.W.1**

*The  
Complete Service*

**WASHED AND  
STERILIZED  
READY FOR USE**



**FITTED  
KORKALITE,  
MOULDED OR  
ALUMINIUM CAPS**



**CORKMOUTH**

**UGB**

**UNITED GLASS BOTTLE  
MANUFACTURERS LTD.**

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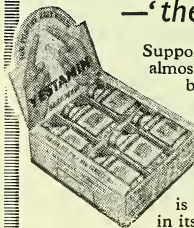
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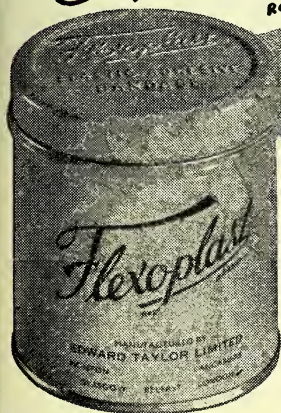
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**SELLS ON ITS  
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The



# CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

FEBRUARY 9, 1952

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

Single copies 1/- each. Annual Subscription, which includes The Chemist and Druggist Diary and Year Book, £2

## In Memoriam KING GEORGE VI

THE CHEMIST AND DRUGGIST records with profound regret the death of His Majesty King George VI, which occurred at Sandringham House on February 6. From his earliest years as a naval cadet and throughout his reign, King George kept ever before him the ideal of duty to which he devoted his life. Called dramatically and unexpectedly to the throne following the abdication of King Edward VIII, he was proclaimed King in December 1936 and crowned in May 1937. He faced with courage, goodwill and restraint the difficulties and responsibilities of a kingship for which he had received no direct training, and surmounted them successfully to win the confidence, affection and esteem of the peoples he himself liked to call the British Brotherhood of Nations. To the new Queen and her Consort, and to the Royal Family, THE CHEMIST AND DRUGGIST tenders its respectful sympathy.

Volume CLVII

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## NEWS OF THE WEEK

**Optical Diplomas.**—Among successful candidates at the examination held recently in Glasgow for the diploma in ophthalmic optics of the Institute of Optical Science were Messrs. W. Marley, M.P.S., D. L. Morgans, M.P.S., J. B. Redpath, M.P.S., and C. Smith, M.P.S.

**Token Imports from North America.**—Information on the Token Imports Scheme for 1952 (see *C. & D.*, January 19, p. 65) has been supplemented by an announcement from the Board of Trade that the value of imports from Canada and the United States permissible under the scheme will be at the rate of 30 per cent. of pre-war (it was 40 per cent. in 1951).

**London M.Pharm. Degree.**—The University of London has taken power to grant a degree of Master of Pharmacy, and it is expected that the Senate will institute the degree when regulations for it have been made and approved. The time of study will be much less than for the present Ph.D. degree (in the faculties of science or medicine) which a number of graduates from the School of Pharmacy have already obtained.

**Guild of Public Pharmacists.**—A meeting of the council of the Guild of Public Pharmacists was held in London on January 26, when discussion took place on a resolution of the Birmingham branch of the Guild on group pharmacists (see *C. & D.*, January 5, p. 4). The council agreed to arrange for a council member to visit the branch. During the meeting a telegram was received from members of the branch demanding that the council should take no further action on group appointments until branches were consulted.

**Staff Vacancies to be Notified.**—Under an Order (S.I., 1952, No. 136) made by the Minister of Labour and National Service and effective from February 25, employers are required to engage workers only through a local office of the Ministry of Labour and National Service or scheduled employment agency. Vacancies may, however, be advertised if the advertisement states that applications are to be made to a local office of the Ministry or a scheduled agency. The Order does not apply to employment in a managerial, professional, administrative, or executive capacity, to part-time, casual (other than for the purposes of the employer's trade or

business) or non-remunerated employment [Pharmacists are excluded from the provisions of the Order and may be engaged directly. Unqualified shop assistants are not excluded].

**Executive Councils Association.**—A meeting in London recently, the management committee of the Executive Councils Association (England) received a recommendation from the Lancashire Executive Council urging national action to secure the immediate pricing of and payment for bundles of unpriced prescriptions dispensed by chemists or dispensing doctors who had died or had resigned from the National Health Service. The Surrey Executive Council wrote stating that it believed accommodation for a pricing bureau for Surrey could be provided in the Council's new offices now under construction and that sufficient pricing staff could be recruited in the area and trained. The committee decided to refer to the Government by deputation to the Ministry of Health the motion carried at the Association's annual meeting 1951 welcoming the reintroduction of rules for patients, "as existed in the days of Insurance Committees."

## LOCAL NEWS

**Huddersfield Dinner and Dance.**—The Huddersfield Chemists' Association held its annual dinner and dance in Huddersfield recently. Mr. T. Heseltine (a member of the Council of the Pharmaceutical Society), responding to a toast, forebode the possibility of the public's being called upon to make payments for medical bottles utilised for N.H.S. prescriptions. He was convinced, he said, that the present Government would cut expenses on the service, and that economies in canteen allowances would be made. Councillor N. Lander (a past-chairman of the Association) referred to the wide range of the activities of the Pharmaceutical Society and to a contribution made by the Association to the Society's Benevolent Fund. Huddersfield, he said, had always been "near the top" for the towns of Great Britain in that respect.

**Record Attendance at Dinner.**—Two hundred and sixty-one people—an all-time record—attended the annual dinner and dance of the Southampton Branch of the Pharmaceutical Society held in Southampton on January 23, Mr. K. F. Yo

the chair. Members of the Portsmouth and Bournemouth Branches and their friends also attended. The chief guests were Mr. A. A. Meldrum (immediate past-president of the Society, the deputy mayor and Dr. J. M. Wright (chairman, Mid-Southern Counties Section of the Royal Institute of Chemistry). Dr. Wright, proposing a toast to the Society, stressed that the fact that pharmacists are taken "so much for granted" was a compliment as it showed the reliance placed on their skill and knowledge by the public. In reply, Mr. Meldrum spoke of the "amicable intercourse" existing between the Royal Institute of Chemistry and the Society. Dr. Barendt, responding to the toast "Our Guests and Visitors," proposed by Mr. E. T. S. Steel, said that without the chemist the doctor would be lost, without the doctor the chemist would be lost, and without either the public would be very fit indeed." Mr. J. M. Wright (a member of the Society's Council) paid tribute to the work done by Mr. Wright as secretary and chairman of the Society.

## IRISH NEWS

**CCG Vaccine Trials.**—The Northern and Tuberculosis Authority has decided on a wider system for the controlled use of CCG. Present methods for obtaining supplies from the Copenhagen laboratory are being continued.

**Northern Ireland Officers at Dance.**—The president of the Pharmaceutical Society of Northern Ireland (Mr. H. W. Gamble), Mrs. Gamble, the vice-president (Mr. W. H. Boyd) and Mrs. Boyd, were among the guests at the annual pharmacy dance of the Guild of St. Albert and St. Columba held in Belfast recently.

**Literary and Scientific Society.**—A meeting of the recently established Literary and Scientific Society of the College of Pharmacy, Dublin, was held in Dublin on February 7. The object of the society is to provide pharmacists and assistants with an opportunity of debating subjects of topical interest and of reading and discussing scientific papers.

**Irish Society's Calendar.**—The 1952 Calendar of the Pharmaceutical Society of Ireland shows that the number of Licences on the register on October 1, 1951, was 1,959 (forty-three more than on October 1, 1950). The corresponding figures for members, assistants to Pharmaceutical

Chemists (excluding those who subsequently became Licentiates), and Registered Druggists (excluding those who subsequently qualified as pharmacists), are respectively: 940 (eleven), 668 (fifty-six) and 213 (a decrease of three). There are no Chemists and Druggists now on the register. During the year there were eighty-one preliminary registrations, or sixteen less than the previous year.

## RETAIL TRADES PRODUCTIVITY TEAM

THE employers' side of the Retail Distributive Trades Conference (on which the National Pharmaceutical Union is represented) announces that a retail distributive trades productivity team is leaving for the United States on February 19 for a six-week tour of that country under the auspices of the Anglo-American Council. The object is to investigate and report upon any aspects of retail management and organisation in America which may result in greater efficiency and overall economies. The team's terms of reference include investigation of:—

1. Self-service.
2. Mechanical handling of goods, mechanical methods of assembly, packing and marking off; receiving, dispatch and retail delivery services and equipment.
3. Practices and developments in the retail trade on:—
  - (a) Stock problems: (i) Stock assortment from the standpoint of economy in service. (ii) layout of stock to economise movement by sales staff; (iii) display of stock so that the customers' choice is assisted and facilitated.
  - (b) Standardisation of sizes acceptable to manufacturers, retailers and customers.
  - (c) Prepacking and selling from displayed samples of non-food goods.
  - (d) Organisation and method: (i) In what ways have time, motion, method study and work simplification been applied to the selling and non-selling processes; (ii) what steps are being taken to meet peak and off-peak work loads, in the day, the week and the year; (iii) what is the experience of staff incentives aimed at reducing unit cost of operation.
4. Staff selection, staff training and retail education.
5. Most effective use of personnel.

The team comprises seventeen members, one of whom is Mr. H. G. Moss, M.P.S. (managing director, E. Moss, Ltd., chemists, Feltham, Middlesex) (see p. 169). Each member is appointed as an individual and not as representing any single trade interest.



## BRANCH AND ASSOCIATION MEETINGS

**Watford and St. Albans Branch.**—At a meeting of the Watford and St. Albans Branch of the Pharmaceutical Society in Watford on January 22, a competitive quiz between teams from Watford and St. Albans was held followed by a discussion on "Recognition of Unqualified Dispensers." The opinion of the meeting was that there was no shortage of qualified personnel and that unqualified dispensers should not be recognised by the Society.

**Outline of Forensic Science.**—At a meeting of the Harrogate Branch of the Pharmaceutical Society held in Harrogate on January 3 an illustrated address was given by an inspector from a police forensic science laboratory, who described the work of his department. He showed examples of forgeries exposed by infra-red photography. Blood groups were an aid to detection and it was now possible to determine a person's group from his perspiration, while blood could be grouped even if several years old.

**Price Maintenance and P.A.T.A.**—A meeting of the Portsmouth Chemists' Association was held at Southsea on January 11, when Mr. H. E. Chapman, M.P.S. (secretary, Proprietary Articles Trade Association), reviewed the price maintenance position with special reference to the P.A.T.A. From the formation of the organisation in 1896 by Sir William Glyn Jones, he led up to the present activities of the Fair Prices Defence Committee. Although a change of government had removed any immediate threat to the price maintenance system, he warned that members must be ever vigilant during this interim calm. Before the address the members stood in silence in memory of a former past-president of the Association (Mr. H. A. Mecoy) who died in December 1951. A motion by Mr. A. G. Bradburn to amend the present constituted rules of the Association was defeated.

**Swansea Branch Activities.**—The December 1951 meeting of the Swansea Branch of the Pharmaceutical Society was held in conjunction with that of the local branch of the Royal Institute of Chemistry. Professor Shoppee (Swansea University College) spoke on the pharmacology, clinical applications and synthesis of cortisone. —The January meeting, which took place at Neath, was attended by sixty members. Dr. F. Hartley, B.Sc., Ph.D., Ph.C., F.R.I.C., gave a lecture on "Sex

Hormones." He dealt with ACTH and pregnenolone. Hormones, he said, were often ordered in too large a dose, and apparently without proper appreciation of their action. For example, in menopausal troubles stilbæstrol should be given or for the first fourteen days of each month cycle. He suggested that pharmacists should accept responsibility for the correct dosages of hormones as they do at present for poisons.

**Address on Aureomycin.**—Chesterfield Branch of the Pharmaceutical Society heard an address on "Aureomycin" by Dr. A. T. Mennie (medical service director, Lederle Laboratories Division, Cyanamid Products, Ltd.), on January 14. Points made by the speaker were: (a) Plant used for manufacture of penicillin could readily be adapted to produce aureomycin. (b) Aureomycin was the only antibiotic that would pass through meningeal barrier and hence into spinal fluid. (c) Adequate dosage was 25 mgm. per kilo body weight. There were no side effects. (d) If mould from production tanks was fed to cattle their body weight was doubled in eighteen weeks owing to an action in the intestines. *Fistulas* were destroyed and animals could then accept all proteins and vitamins. (e) Favourable results on cattle on one tenth the human dose of aureomycin in numerous diseases had been reported.

**Change of Programme.**—Films due to be shown at a meeting of the South Shields Pharmacists' Association held in South Shields on January 14 failed to arrive in time. Thanks to the efforts of the sponsors (Evans Medical Supplies (North Shields) Ltd., Newcastle-on-Tyne) the following alternative programme was shown:—"Modern Guide to Health" (a cartoon on the importance of good posture, relaxation, fresh air and sensible clothing), "Approach to Science" (a survey of outstanding scientific developments that played a part in the war), "Tracing the Spread of Infection" (a film on the detection of *Pemphigus neonatorum* in maternity wards), "Scabies Mite" (a short film on the life cycle of *Sarcoptes scabiei*). The films were introduced by Mr. W. J. Merrick, M.B. (Evans Medical Supplies, Ltd.), who sketched briefly the growth of film evenings among local Branches and described the work of the Pharmaceutical Society's films committee.

# TOPICAL REFLECTIONS

## Assessments

One of the most helpful articles on business problems read by me lately appeared on pp. 158-59 of your issue of February 2. When new assessments are known to be under consideration, experienced ratepayers suspect that they will be higher than existing ones. Your contributor has subject last week gave exactly what ratepayers need to know about the valuations now in preparation. I may select a few salient points. Individual notice of assessment will only be given in respect of property not previously assessed: it follows that each ratepayer, or a deputy, should examine in the first place a draft list deposited in some place publicly announced. A notice of objection must be served on the local valuation officer within twenty-five days of the public notice of the deposit being given. The notice must (a) be in writing; (b) state the grounds of the objection; (c) add the objector's suggested amendment. If the ratepayer decides to appeal against the Inland Revenue officer's valuation on an objection, he must lodge his appeal, within twenty-one days, in the valuation court. There he may either contest his own case or be professionally represented, and may call witnesses. There is a further right of appeal to the Lands Tribunal; and on a point of law an objection may even take the matter to the House of Lords. An objection to the final valuation list may be lodged although the tribunal allowed the draft list to pass without comment. However, the conditions on pp. 158-59 are so strict that in cases of dispute the help of a legal adviser is worth obtaining.

## Increased Exports

Statistics can be dull or even very dull; they can also be revealing. Your editor's comments under the heading "A worthy Performance" (p. 146), which pay a tribute to pharmaceutical manufacturers for their share in the export drive, should not be overlooked. No one need be surprised by finding that numerous figures are included. The outstanding fact is that in 1951 exports of "drugs, medicines and medicinal preparations" were about 19 per cent. higher than those of the year 1949. Only very few chemicals—they were "in tight supply"—showed a decrease. It is noteworthy that United Kingdom exports as a whole showed an increase

of 19 per cent., not much more than one-third of the increase in preparations exported by the pharmaceutical and fine-chemical industries. This triumph of the industries has been achieved in spite of shortages of various raw materials and difficulties of packaging. Its significance is prospective as well as topical: it indicates that manufacturers of these goods are not sitting down and lamenting the hardness of the times in which they and all of us live. There is, of course, a less pleasant feature in the picture. The past year's exports as a whole increased in volume by about 3 per cent., whereas the corresponding imports are estimated to have risen in volume by 15 per cent. But pharmaceutical and fine-chemical manufacturers have shown what can be done to help the country in its efforts to round an awkward corner.

## Youth to the Fore

One of the speakers at a recent pharmaceutical function at Burnley (p. 131) said he would like "to see one of the local branch offices left open specifically for the young members." This suggestion is worth the attention of all associations of pharmacists. I should prefer to put the Burnley idea in a slightly different form by proposing that young members should be elected to office in these associations whenever opportunities occur. It might well happen that a policy of regular recruitment of junior officers would infuse fresh interest into groups which at present represent only imperfectly the pharmaceutical life of their respective areas. In Manchester, and possibly elsewhere, the help of youth has been enlisted in another way by formation of a junior branch of the Pharmaceutical Association. Local conditions would afford guidance as to which is the better method in each case. There is no doubt that in some way the active interest of young pharmacists and students should be obtained. Failing that interest, where are we to look for leaders a few years hence? Glancing at other vocations, we can see clearly enough the danger of apathy resulting from a misconceived equality. If, then, no inducement to take any part in disinterested work for the benefit of colleagues is offered or even suggested to beginners, pharmaceutical organisations may become mere coteries of officials.

**Xrayser**

## NEW COMPANIES

**DAVID PAPE, LTD. (P.C.).** — Capital £8,000. To acquire the business of Henry D. Pape, M.P.S., at 17 Station Street, Keswick. H. D. Pape and Hilda M. Pape, directors.

**SWEENEY'S PHARMACIES, LTD. (P.C.).** — Registered in Belfast. Capital £5,000. To acquire the business of a pharmaceutical chemist now carried on as Charles Sweeney at 52 High Street, Holywood, co. Down. Audrey K. Sweeney and Samuel Milligan, subscribers. The first directors are not named. R.O.: 1 Garfield Street, Belfast.

**WANTAGE CHEMICALS, LTD. (P.C.).** — Capital £1,000. To carry on the business of manufacturing, dispensing and analytical chemists, etc. James A. Porteus (permanent), Elsie T. Porteus, Joyce T. T. Mills, John Mills and John T. Risbridger, directors. R.O.: The Old Cinema, Wantage, Berks.

**TRINICKS (CHEMISTS), LTD. (P.C.).** — Capital £5,000. To acquire the businesses carried on by Joseph S. Trinick, M.P.S., at 141 High Street, and 5 Kingsmead Way, Homerton, and 384 Wick Road, Hackney. Joseph S. Trinick (permanent) and Violet E. Trinick, Priory Cottage, 70 Crabtree Lane, Harpenden, Herts, directors.

## Company News

**ARTHUR BERTON, LTD.**—Net profit for 1951 was £49,322 against £43,297 in the previous year. A final dividend of 7½ per cent. on increased capital, making 15 per cent. for the year (same), is recommended.

**WRIGHT, LAYMAN & UMNEY, LTD.**—Mr. R. A. Hall, M.A., A.C.I.S., A.I.A.C., B.Sc.Econ., has been appointed deputy managing director. Mr. H. W. A. Speller, A.S.A.A., F.I.A.C., has been appointed a director.

**IDRIS, LTD.**—Net profit for the year ended October 31, 1951, was £29,384 against £34,910 in the previous year. A 10 per cent. dividend on ordinary shares is recommended. The chairman's statement accompanying the accounts explains the reduction in profits as due to continuing rise in costs. With few exceptions, selling prices have not been raised since 1948.

**LEVER BROTHERS & UNILEVER, LTD.**—A resolution to change the company's name to Unilever, Ltd., will be submitted at an extraordinary general meeting of the

stockholders on February 27. A similar resolution to change the name of Dutch parent company to Unilever, N.V. will be submitted to a meeting of shareholders of that company in Rotterdam.

## LEGAL REPORTS

**Unaware Drug was D.D.**—At Chancery Lane, recently, Silvin Plinston, an orphan, St. James's Street, Accrington, was fined £5 on each of two charges of administering Ethel Hanston, Stacksteads, who herself fined £5 each on charges of tempting to obtain a Dangerous Drug. Plinston was fined £10, with £5 5s. 6d. for attempting to procure a Dangerous Drug for Hanston. He admitted having given a prescription, but said he had no idea the tablets he prescribed contained a Dangerous Drug.

**Partnership Declared Dissolved.**—The Chancery Division, London, on January 5, Oliver William Brettoner, Morden Road, Morden, Surrey, was granted a declaration that a partnership entered into in May 1949 with Leslie J. Molesey Road, West Molesey, in a business of wholesale druggists and sundries formerly carried on by Mr. Brettoner at 319 Brixton Road, London, under the name William Bellamy, was dissolved from October 26, 1950, the date of issue of the writ in the action.

**Obsession to Become Doctor.**—A seventeen-year-old youth, Brian Swinburne Peace, Cashmore View, Leicester, who appeared before Leicester city magistrate recently on a charge of stealing chemicals and drugs worth £5 12s. from his employers, Berridge, Ltd., chemists, 54 Market Place, Leicester, was stated to have an obsession about becoming a doctor. A police officer told the court that Peace had various other chemicals and drugs at home, and had bought himself a telescope. The Bench ordered a remand to two weeks so that the probation officer could make his report.

## BUSINESS CHANGES

**BRAND & Co., LTD.**, Mayfair W. Vauxhall, London, S.W.8, have appointed Mr. G. Coles Smith their representative in North-east Kent.

**THE joint secretaries and stock transfer office of Glaxo Laboratories, Ltd.**, has been removed to 1 Carlos Place, London, (telephone: Grosvenor 8771).



# THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

SAKING on the proposed prescription charges in the debate on the financial and economic situation on January 30, Mr. H. GAITSKELL (Chancellor of the Exchequer in the previous Government) said that while the Labour Government had proposed the charge, the Prime Minister announced at the time that it would not apply to old-age pensioners. The reason the charge had been dropped was largely the administrative difficulty of exempting the old-age pensioners, and he has no doubt that the reason why the present Government was not exempting old-age pensioners was that they knew it would be great difficulty in doing so.

Mr. A. BLENKINSOP (formerly Parliamentary Secretary to the Ministry of Health) said that none would deny that there was still abuse in that field, but it had become clear to them that in trying to work out the administration of the charge it would be impossible to apply it without overwhelming hardships to a vast number of people. To what extent could a charge in that field correct abuses? It might deter a small minority who abused the Service but at the expense and cost to the vast number who did not abuse it. Mr. IAN FRASER said free medicine and treatment of every kind had been a fundamental mistake.

Mr. C. R. ATTLEE said on January 31 that the Labour Government had gone to the prescription question, and there was no doubt about abuse. People were taking the time of doctors who ought to be employed, and were getting all sorts of things that were not strictly curative. Therefore they had brought forward a proposal. But they found that it was not the effective way of curing the disease. It would mean a great deal of extra work for the doctors, in certain circumstances people entitled to free medicine would not benefit, and thirdly, they had found another way of doing the job. Mr. ATTLEE had set up the Cohen Committee, which had managed to remove from the list that could be prescribed many things which were not drugs. The new Government's charges were introduced for some ordinary reason as a means of dealing with overseas payments.

Mr. ANEURIN BEVAN said that when he had the power to provide for prescription charges he had said that he doubted whether it would be a practicable step.

They had found that the exemptions that ought to be made reduced the figure to *de minimis* proportions and therefore it was not worth while having all the expensive administrative machinery to do it.

Winding up the debate, Mr. H. CROOKSHANK (Minister of Health) said that the consumption of medicine had risen enormously. In 1947, when it was only the insured population that could be referred to statistically, the number of prescriptions per person per year was three-and-a-half. Now that the whole population was included, the average number of prescriptions per person per year was five. In the past three years the number of prescriptions had gone up from 202 millions to 207 millions and now to 229 millions, and the total bill for prescriptions was over £50 millions a year.

The Government's proposals were approved by 309 to 278.

## National Health Service Bill

THE National Health Service Bill which among other provisions enables regulations to be made imposing charges to out-patients for the supply of drugs, medicines or appliances (including the replacement and repair of appliances) under the hospital and specialist services, was presented to the House of Commons on February 1. The second reading was on February 7. The Bill constitutes it an offence to make a false statement for the purpose of avoiding payment.

Receipts for charges made under the Bill are exempted from stamp duty. The National Assistance Board is empowered to help necessitous cases. The Act is to be called the National Health Service Act, 1952.

It is estimated that in a full year the saving accruing to the Exchequer as a result of the charges made for drugs, etc., to hospital out-patients, and for dental treatment, will be of the order of £7.5 millions (England and Wales £6.75 millions and Scotland £0.75 millions). The saving in the financial year 1952-53 will be rather less, as the full effect of the charges will not be felt immediately.

An Order giving effect to a charge of one shilling per prescription form for prescriptions to be dispensed at pharmacies is shortly being laid before the House of Commons. It will take effect at the same time as the 1952 Act.

## BIRTH

**WOULFE.**—Recently, to the wife of David Woulfe, M.P.S.I. (president of the Irish Drug Association), 35 Grafton Street, Dublin, a daughter.

## DEATHS

**ALPE.**—On January 25, Mr. Frank Theodore Alpe, Bracondale, Wymondham, Norfolk (judge of the Norwich Guildhall Court of Record since 1939, and for the past year Recorder of Great Yarmouth). Mr. Alpe qualified as a chemist and druggist in 1909. The son of a barrister (the late Mr. E. N. Alpe, author of a formerly standard work on Medicine Stamp Duty), he entered the family business at Wymondham which he subsequently inherited. For some years he was bacteriologist to the Norfolk County Health Department. Called to the Bar in 1925, he was successful as counsel for the defence in a number of murder trials.

**CARMICHAEL.**—At 4 Blackburn Place, Ayr, on January 25, Mrs. Catherine Connell Carmichael, wife of the late Mr. Matthew Carmichael, M.P.S., Glasgow.

**CARTER.**—Suddenly, on January 19, Mr. Joseph Carter (a representative for many years of Chemists' Sundries (Preston), Ltd.), aged forty-eight.

**HARRIS.**—At St. Anthony's Hospital, Cheam, Surrey, recently, Mr. John Flinton Harris, J.P., Ph.C., aged seventy-nine. Mr. Harris qualified as a chemist and druggist in 1893, and as a Pharmaceutical Chemist in 1900. He joined the qualified staff of the late Mr. Alfred Kirby, M.P.S., Northampton, and when Mr. Kirby died acquired the business and subsequently moved to larger premises in St. Giles' Street. He retired in 1941. He was a past chairman of the local Pharmacists' Association, president of the Rotary Club, the local adult school movement and Y.M.C.A. His civic duties included acting as chaplain to a Quaker mayor of the town. He married in 1940 and his wife died seven years later.

*Mr. F. C. Ashford, M.P.S., M.I.D.S., J.P., writes:* The news of the passing of Flinton Harris will be received with great regret by the many organisations with which he was connected and by all who knew him. I knew him for many years as he was a student at Bloomsbury Square when I was at the London College and I frequently met him on the football field when

the two colleges were great rivals. When he came to Northampton he was soon an active member of the Chemists' Association. In later years we were both magistrates on the Bench and it was a pleasure to be associated with such a painstaking partner. He was thorough about everything he did and although somewhat reserved he loved a good joke. Few in the town have had so many honours bestowed upon them and his place will be hard to fill.

**HEALEY.**—At 30 Ellesmere Road, Woking, London, W.4, on February 4, M. Healey, wife of Mr. Maurice J. Healey, M.P.S., 76 Uxbridge Road, London, W.

**LEITHHEAD.**—On January 21, Agnes Mary Leithhead, M.P.S., 49 Galloway Loan, Edinburgh, 9, aged forty-seven.

**OLIVER.**—On January 20, Mr. Robert Oliver, M.P.S. (a partner in C. & Griston, Market Place, North Walsham, Norfolk) aged eighty-seven.

**PADLEY.**—At Wooler, Northumberland, recently, Mr. Frank Robert Padley, aged ninety-three. Mr. Padley, who qualified as a chemist and druggist in 1900, was well known in the Cheviot hills and had been in business in Market Place, Wooler, for fifty-six years. He took an active part in local affairs and was a Sunday school superintendent for many years. He was a keen bowler.

**PRIBIK.**—At the London Clinic, London, W.1, on January 22, Mr. Charles C. Pribik, Ph.C., 165 Park Road, Clapham, London, N.8, aged forty-eight. Mr. Pribik served his apprenticeship with late Dr. W. H. Martindale, New Church Street, London, W.1. For the sixteen years he had been with Messrs. Spencer, Ltd., store proprietors, London, as food chemist.

**SCHOLFIELD.**—On January 22, Mr. William Scholfield, M.P.S., aged sixty-five. Before semi-retirement some years ago Scholfield had been in business in Market Street Burnley, for forty years. He had since been with Dodsleys, Ltd., chemists, Burnley. He is survived by his widow and one son.

**SPENCER.**—On January 18, Miss Kathleen Spencer, M.P.S., 62 Farnham Street, High Wycombe, aged seventy.

**SURGENOR.**—At 95 Ormonde Crescent, Muirend, Glasgow, S.4, on January 22, James Bristow Surgenor (formerly of James Bristow & H. Smith, Ltd., Edinburgh).

## PERSONALITIES

R. T. G. RUTLEDGE, M.P.S.N.I., High t, Omagh, co. Tyrone, has been d treasurer of the Omagh Chamber mmerce.

H. G. Moss, M.P.S., who is a er of the retail distributive trades productivty team leaving Britain shortly to visit America (see p. 163) has been managing director of E. Moss, Ltd., chemists, Feltham, Middlesex, since 1934. He is a member of the Executive Committee of the National Pharmaceutical Union, of the council of Proprietary Articles Trade

ation and serves on the Middlesex aceutical Committee which he also nts on the Middlesex (Area No. 10) Committee. He was apprenticed Williams & Smith, Horsham, Sussex, ualified in 1928. He expects to be n Britain about the middle of April.

S. JOYCE NORTH, an employee of Laboratories, Ltd., Horsham, Sussex, art in a "Down Your Way" proce for Horsham, broadcast by the Broadcasting Corporation on Feb. 3. She described her work dealing kethamide and Crystules of hormones.

S WINIFRED ATWELL, a Jamaican acist, now a professional pianist (see D., 1951.I.105), took part in an "In Tonight" programme broadcast by itish Broadcasting Corporation on ry 2. She said that during a holi- a Jamaica from which she had just d she had helped her father in his acy.

E. WHITELEGG, M.P.S. (a director V. Dobson, Ltd., chemists, Harro- was elected president of the Harro- hamber of Trade on January 28. l be in office during the 1952 con- is of the National Chamber of Trade is to be held in Harrogate. Mr. egg was chairman of the reception tee of the British Pharmaceutical ence, Harrogate, 1951.

## WILLS

Mr. T. H. MARTIN, M.P.S., 60 South Road, Smethwick, Staffs, left £2,016 (£1,981 net).

Mr. W. J. PEARSON, M.P.S., 66A The Avenue, Southampton, left £6,875 (£5,074 net).

Mr. E. H. EARLE, M.P.S., 168 Victoria Avenue, Hull, left £10,019 (£8,482 net).

Mr. J. W. BURCHNALL, M.P.S., 60 Queen Street, Ramsgate, left £22,171 (£21,954 net).

Mr. J. JACK, M.P.S., Inglewood, Rothes, Morays, left £10,355.

Mr. J. L. EVANS, M.P.S., 8 Torrisdale Street, Coatbridge, left £10,219.

Mr. W. GWILLIM, M.P.S., 2 Penyrheol Drive, Sketty, Swansea, left £11,200 (£11,157 net).

Mr. G. V. TOOMEY, M.P.S., 2 St. Clair Road, Salisbury, Wilts, left £8,410 (£3,568 net).

Mr. C. W. TAYLOR, M.P.S., 25 Leigh Road, Leigh, Lancs, left £6,509 (£5,663 net).

Mr. J. C. DEAN, M.P.S., 15 Flowergate, Whitby, Yorks, left £456.

Mr. J. HUNTER, Ph.C., Hunterlea, Maghera Street, Kilrea, co. Londonderry, left £16,405.

Mr. W. F. GEORGE, M.P.S., The Cottage, Nut- hall, Nottingham, left £11,717 (£11,659 net).

Mr. G. W. SMITHSON, Boston, Lincs, retired chemist and druggist, left £1,857.

Mr. G. A. KETLEY, 41 The Avenue, Hatch End, Middlesex (managing director of Skinetolin Co., Ltd.), left £1,560 (£1,387 net).

Mr. A. WHITEHEAD, M.P.S., Westgate, 32 Oak- leigh Park North, London, N.20, left £17,328 (£17,152 net).

Mr. R. J. KNIGHT HEPBURN, M.P.S., 125 High Street, Aldeburgh, Suffolk, left £19,160 (£17,555 net).

Mr. H. R. JONES, M.P.S., Bod-Eryl, Glyn-y-Marl Road, Llandudno Junction, Carnarvons, left £3,536 (£3,504 net).

Mr. J. NETHERWAY, F.C.I.S., Exbourne, Chisle- hurst, Kent (formerly managing director and vice- chairman of Allen & Hanburys, Ltd.), left £53,110 (£52,535 net).

Mr. R. A. J. CLEMENTSON, 16 The Barons, St. Margarets East, Twickenham, Middlesex (formerly a representative for Potter & Moore, Ltd.), left £6,332 (£6,279 net).

Mr. W. E. C. STURMAN, 33 Granby Road, Stock- port (a director of Albert Moss & Co., Essence, Ltd., Barlow Row, Stockport), left £11,512 (£11,334 net).

Mr. A. W. TOPPING, 9 Hillcote, Bolsover Road, Eastbourne (a director and former managing direc- tor of Gale, Baiss & Co., Ltd., and a director of General Apothecaries, Co., Ltd.), left £7,996 (£7,843 net).

Mr. H. SUMMERSGILL, M.P.S., 4 Reneville Road, Rotherham (superintendent chemist and optician with the Rotherham Co-operative Society, Ltd., and a member of the Rotherham Executive Coun- cil and of the Optical Services Committee) left £6,074 (£5,569 net).



## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Sunday, February 10

CORNWALL BRANCH, PHARMACEUTICAL SOCIETY, St. John's Ambulance Hall, Truro, at 3 p.m. Mr. W. J. Tristram (vice-president, Pharmaceutical Society) on "In My View."

### Monday, February 11

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Unicorn, Gidea Park, Essex, at 7.30 p.m. Films by Sharp & Dohme, Ltd.

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, and SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Dorset Café, Ocean Road, South Shields, at 7.45 p.m. Debate: "That Pharmacy is a Worth-while Career."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Beckenham Library, Beckenham, Kent, at 8 p.m. Film programme.

WOLVERHAMPTON CHEMISTS' ASSOCIATION and BRANCH, Y.M.C.A., Stafford Street, Wolverhampton, at 7.15 p.m. Whist drive.

### Tuesday, February 12

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Grand Hotel, Birmingham, at 8 p.m. Film show arranged by Pan American World Airways.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, Hounslow, at 8 p.m. Dr. J. M. Rowson (curator of the Society's Museum) on "The Work of the Museum of the Pharmaceutical Society."

PRESTON BRANCH, PHARMACEUTICAL SOCIETY, Royal Oak Hotel, Chorley, at 8 p.m. Film show.

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION and BRANCH, The Plough, 2 Lewisham High Street, London, S.E.13. Mr. C. Beaven (Parke, Davis & Co., Ltd.) on "Chloromycetin."

### Wednesday, February 13

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Institute of Accountants and Actuaries, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Address by Mr. F. C. Wilson (president, Pharmaceutical Society).

IRISH CHEMISTS' GOLFING SOCIETY, Shelbourne Hotel, Dublin. Annual meeting.

### Thursday, February 14

BRADFORD BRANCH, NATIONAL PHARMACEUTICAL UNION, Midland Hotel, Bradford, at 7.45 p.m. Mr. H. Steinman (a member of the Society's Council, and of the Executive of the National Pharmaceutical Union) on "The National Pharmaceutical Union Services and the National Health Service Up to Date."

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Board Room, Guildhall, Small Street, Bristol, at 7.15 p.m. Mr. A. J. Plowright (assistant secretary, Pharmaceutical Society) on "Education."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropolitan Hotel, Leeds, at 7.45 p.m. Address by Mr. W. K. Fitch (editor, "Pharmaceutical Journal").

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, Adelphi Hotel, Liverpool, at 7.30 p.m. Lecture-demonstration on "Hypnototherapy" by Mr. R. E. Cocking.

LONDON PHARMACISTS' BRANCH, ASSOCIATION OF SCIENTIFIC WORKERS, 17 Bloomsbury Square, London, W.C.1, at 7.15 p.m. Mr. J. W. Had-

graft (chief pharmacist, Royal Free Hospital Teaching Group) on "The Control of Infection in Hospitals."

MANCHESTER PHARMACEUTICAL ASSOCIATION BRANCH, Council Chamber, Houldsworth Manchester, at 7.45 p.m. "Ten-minute paper" by Mr. H. Burlinson, Professor H. Brind Mr. J. R. Walmsley.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Boots' Institute, Trent Bridge Pharmacy, at 7 p.m. Social evening. Ticket 2s. 6d.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Solent Hotel, South Parade, Southsea, at 7 p.m. Mr. A. L. Williams (Portsmouth analyst) on "The Work of the Public Analyst's Department."

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Lers Hall, Sheffield, at 8 p.m. Annual Meeting. Ticket 7s. 6d.

WORCESTER BRANCH, PHARMACEUTICAL SOCIETY, Talbot Hotel, Barbourne, Worcester, at 8 p.m. Mr. A. R. G. Chamings on "The Chemical Story." Film: "Modern Drugs in the Market."

ISLE OF WIGHT BRANCH, PHARMACEUTICAL SOCIETY, God's Providence House, Newport, at 8 p.m. Address by Mr. J. M. (a member of the Society's Council).

### Friday, February 15

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial Hotel, Hull, at 8 p.m. Mr. C. L. (Kodak, Ltd.) on "The Fun of Photography."

SOCIALIST MEDICAL ASSOCIATION, Denison Vauxhall Bridge Road, London, S.W.1, at 8 p.m. Members of Parliament on "Health and the Health Service." Admission 1s.

## RETAIL WAGES CLAIM

THE Union of Shop, Distributive and Allied Workers in a statement dated February 8, 1934, announces that it has initiated a claim for a 20s. per week increase in wages for all men and women retail shop assistants and for proportionate advances for juniors. The union regards the present wage rates as inadequate to provide a satisfactory living standard and insufficient to meet the responsibilities of managers.

According to a statement issued by the Union on January 23 the joint committee of trade unions representing retail and cooperative employees has applied to the national wages board of the Co-operative Union, Ltd., for the following increase in the national wages rates (male and female workers): Age 21 years and over, 18s. 6s. per week. The application also asks to revise the scales of payment to branch managers and manageresses based on the sales of the shop. The total increase sought for branch managers vary, ranging from over 30s. per week in the largest branches. Higher payments are also claimed for assistants in shops. The Union of Shop, Distributive and Allied Workers is represented on the joint committee.

## TRADE NOTES

**Infra-red Lamps.**—A range of infra-red ultra-violet lamps is marketed by Bar-Electrical Services, Ltd., Leach Street, Birmingham, 16.

**Newsletter Returns.**—The advertisement pages of this issue provide a medium for the return of "T.K.'s Monthly Newsletter" the publication that appeared regularly before the 1939-45 war from the quarters of Thomas Kerfoot & Co., Bardsley Vale, Ashton-under-Lyne.

**Luxury Soap Returns.**—Vinolia Co., 59 Park Royal Road, London, W.10, announce the return to the mar-

**Ruled Taxable.**—Ciba Laboratories, Ltd., Horsham, Sussex, have been informed by the Customs and Excise authorities that, in addition to the liability to purchase tax of all preparations of Coramine-Adenosine (see *C. & D.*, February 2, p. 138), Coramine-ephedrine tablets and all forms of Coramine-caffeine became subject to purchase tax on February 1. The new prices are given overleaf.

**Muscle-relaxant Injection.**—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction of Diamethine brand injection of dimethyl-tubocurarine bromide, a muscle relaxant with an action similar to, but of slightly shorter duration than, *d*-tubocurarine chloride, and causing less histamine release. Diamethine is miscible in all proportions with intravenous barbiturates. Intended as a companion product to Tubarine injection of *d*-tubocurarine chloride, it is issued in a strength (4 mgm. per c.c.) approximately equipotent with Tubarine in muscle-relaxing effect, in ampoules containing 6 mgm. in 1.5 c.c. (boxes of six and twenty-five; rubber-capped bottles of 20 mgm. in 5 c.c.).

**Extensions to Range.**—Dearborn, Ltd., Kern House, Kingsway, London, W.C.2, announce the extension of their Merco-



lized wax series to include a foundation cream and astringent lotion. The Stallax pure soap shampoo has been revived in a family pack of twenty; it is presented as specially suitable for children and persons susceptible to ill-effects from the use of soapless detergents.

their pre-war luxury toilet soap *Très* production of which was suspended during the 1939-45 war. It is presented in the form of one doz. cushion-shape tablets.

**Analgesic Ointment.**—Duncan, Flocke & Co., Ltd., 104 Holyrood Road, Edinburgh, 8, are now issuing Xylocaine in the form of an ointment and have resumed the manufacture of dental bridges. The ointment is issued in ½-oz. and 1-lb. jars and the cartridges in boxes of 100 2-mil Xylocaine hydrochloride per cent. with adrenaline 1:80,000.

**Self-sterilising Plastic Sheeting.**—Chemists are invited to write for full details of a new type of self-sterilising plastic sheeting which are manufactured by Porol Ltd., 4 Warwick Court, London, W.1, and distributed to chemists by Union Chemists Association, Ltd., Uxbridge, Cheltenham.

**Foreign Stamps with Dentifrice.**—For months an envelope containing three foreign or colonial stamps has been issued with each tin of Odol solid dentifrice. A card depicting some of the stamps bearing the slogan "The solid dentifrice children love" has been issued by the manufacturers, Cranbux, Ltd., 112 of Wales' Road, Norwich.



## PRICE CHANGES

(I.R.P.=Inclusive Retail Price)

	Doz.	Tax	I.R.P.
	s. d.	%	s. d.
<i>Evans Medical Supplies, Ltd.</i> (from February 1)			
Pularin (heparin-Evans)			
1,000 international units			
per mil	5 mil		5 9
5,000 i.u. 5 mil			21 9
25,000 i.u. 5 mil			105 0
Powder (100,000 i.u.) ...			78 9
<i>Boots Pure Drug Co., Ltd.</i> (from February 1)			
Injection of heparin B.P.—			
Boots 1,000 international			
units per mil rubber			
capped vial 5 mil each	3 10		5 9
5,000 i.u. each	14 6		21 9
25,000 i.u. each	70 0		105 0
Heparin retard 20,000 i.u.			
2 mil ampoule each	12 0		18 0
6 x 2 mil ampoules each	66 8		100 0
Heparin powder,			
vials of 20,000 i.u.	11 8		17 6
100,000 i.u.	52 6		78 9
<i>Bayer Products, Ltd.</i> (from February 1)			
Eumydrin powder,			
0.1 gm. each	1 6	Nil	2 0
1 gm.	10 0	Nil	13 4
Tablets	100 3	6 4	8 8
1,000 20 0			26 8
The price of ten tablets and of Eumydrin drops			
0.6 per cent. alcoholic solution is unchanged.			
<i>Ciba Laboratories, Ltd.</i>			
Coramine-Adenosine,			
box of 5 ampoules ...	33½	6 0	
15-c.c. bottle ...	33½	7 3	
100-c.c. bottle ...	33½	30 8	
tablets 20 ...	33½	7 6	
100 ...	33½	31 11	
250 ...	33½	71 3	
Coramine-Caffeine,			
box of 5 ampoules ...	33½	5 4	
15-c.c. bottle ...	33½	5 0	
100-c.c. bottle ...	33½	24 5	
tablets 20 ...	33½	5 8	
100 ...	33½	24 5	
250 ...	33½	55 0	
Coramine-Ephedrine,			
box of 5 ampoules ...	Nil	4 3	
15-c.c. bottle ...	Nil	4 0	
100-c.c. bottle ...	Nil	19 6	
tablets 20 ...	33½	5 8	
100 ...	33½	24 5	
250 ...	33½	55 0	
<i>The British Drug Houses, Ltd.</i> (from February 1).			
Heparin solution, 5-mil ampoules			
500 units per mil each	2 8		4 0
1,000 units per mil each	3 10		5 9
5,000 units per mil each	14 6		21 9
Heparin powder,			
vial of 20,000 units, each	11 8		17 6
100,000 units, each	52 6		78 9
<i>Reckitt &amp; Colman, Ltd.</i> (from February 4).			
Dettol, 1 gall.	18 6		27 0
Harpic, B-size gross	162 0		1 6
<i>Paines &amp; Byrne, Ltd.</i>			
Injection of heparin B.P.,			
1,000 international units			
per c.c. ... 5-c.c. vial			5 9
5,000 i.u. 5-c.c. vial			21 9
25,000 i.u. 5-c.c. vial			105 0

**Surgical Dressings.**—Wholesalers' prices to retailers were increased on February 4 as follows: Absorbent lint, B.P.C., in pkt., per lb., 16-oz., 11s. 7½d.; 8-oz., 11s. 9½d.; 4-oz., 12s. 0½d.; 2-oz., 12s. 6½d.; 1-oz., 13s. 4½d.; ½-oz., 14s. 8d. Boric acid lint, B.P.C., pkt., 1-lb., 142s. 9d. per doz.;

size 16, 72s. 8d. doz.; 8, 37s. 1d.; 4, 19s. 2, 10s. 3d.; 1, 5s. 7d. Absorbent cotton wool, B.P.C., not interleaved, pkt., per lb., 16 7s. 5d.; 8-oz., 7s. 7½d.; 4-oz., 7s. 10½d.; 2 8s. 4½d.; 1-oz., 9s. 2d. Interleaved, 16-oz., 7s. 7 8-oz., 7s. 10d.; 4-oz., 8s. 1d.; 2-oz., 8s. 1-oz., 9s. 4½d. Gauze and cotton tissue, B.P. pkt., per lb., 16-oz., 8s. 7½d.; 8-oz., 8s. 10 4-oz., 9s. 1½d.; 2-oz., 9s. 6½d.; 1-oz., 10s. Boric and lint (35 to 45 per cent.); absorbent lint (hospital quality); picric lint; eufiline; B.P.C.; Boric wool, B.P.C.; cotton wool (sterile); lint, B.P.C.; absorbent cotton wool, B. (sterile); lint, B.P.C. (plain doubly wrapped sterile); and lint (boric doubly wrapped, sterile) are also increased in price.

## PROPRIETARY ARTICLES TRADE ASSOCIATION

### Alterations to Protected List (Part 1)

*Allen & Hanburys, Ltd.* (Correction)

Allenburys malt extract  
with cod liver oil, iron  
and calcium 1-lb. 23 3 33½  
2-lb. 44 0 33½

*Aspro, Ltd.* (revised prices in Irish Republic)

Aspro 5 3 0 Nil  
10 6 0 Nil  
27 13 6 Nil

*Ayrton, Saunders & Co., Ltd.* (Correction)

Cremosan ointment ... 10 0 33½  
1 gross 9 6

*H. W. Carter & Co., Ltd.*

The special price to retailers of 27s. per  
Ribena black currant syrup on orders for 120  
has been withdrawn.

*Granto Laboratories, Ltd.* (increased prices).

Saspre (Zestos) B vitamin  
condiment ... 12 3 Nil

*Heather Park Laboratories, Ltd.* (addition)

Glucosime ... 22 6 Nil  
(plus 3d. deposit on bottles returnable)

*Lehn & Fink Products, Ltd.*

Quantity terms: Marshall's lysol, £3 order  
5 per cent. O-syl antiseptic, £7 10s. orders  
10 per cent.

*Modern Health Products, Ltd.* (increased prices)

Natex vegetable soap 3-oz. 6 4½ 33½

*Moore Medicinal Products, Ltd.* (increased prices)

Brovon tablets 25 29 6 Nil  
100 101 0 Nil  
elixir 4-oz. 50 6 Nil

(purchase tax exemption)

Methen tablets 25 25 0 Nil  
100 82 0 Nil

*Parke, Davis & Co., Ltd.* (from February 1)

Shaving cream ... 18 0 33½

*Pure Products, Ltd.* (increased prices)

Derbac (disinfectant)  
shampoo soap, 3-oz.  
gross ... 71 6 33½  
6-oz. gross 126 0 33½

*Riddell Products, Ltd.* (Addition)

Riddostat hand inhaler ... 180 0 Nil

*A. L. Simpkin & Co., Ltd.* (Correction)

Vitalglucose tablets 24 x  
rod, skillets ... 15 0 Nil  
single skillets of 8 tablets — —

**A Transposition Corrected.**—In this section  
week two lines of type relating to Marshall's  
and O-syl antiseptic, both distributed by  
& Fink Products, Ltd., were inadvertently  
posed, so that they appeared under the name of  
another manufacturer.



## CONFERENCE ON THE SHILLING LEVY

a meeting held in London on February 14, 1952. The Central N.H.S. (Contractors) Committee decided that the proposed prescription levy scheme made it necessary to convene a conference of Pharmaceutical Committee representatives at North Hall, Victoria Halls, Bloomsbury Square, London, W.C.1, at 2.30 p.m. on February 14. The Committee regrets the short notice but considers that if a conference is to be of any use it must be held quickly. The decisions of the Committee on the levy proposals are:—

1. That the proposals can work, but at the expense of considerable hardship to sections of the population and with considerable difficulties for the chemist in his relations with the public.

2. That the proposals should not be referred to the extent of not operating them.

3. That, subject to special arrangements to meet rural area problems, chemist contractors should accept responsibility for meeting the levy in cash.

4. That steps should be taken to ensure that the Regulations under which the scheme would operate include provisions:

(a) requiring the levy to be paid at the time the prescription is presented for dispensing.

(b) requiring a standard levy of 1s. per form (except elastic hosiery) and with no exceptions for prescriptions that have an N.H.S. value of less than 1s.

(c) protecting the chemist effectively against "multiple" prescribing on a single form and similar abuses.

5. That the operation of the levy scheme would necessitate additional pharmaceutical service remuneration and a change in the container allowance arrangements; and that a claim in those respects should be made to the Ministry forthwith.

The business of the conference will be to endorse or otherwise deal with the committee's opinions and to give instructions and authority for action.

## NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executive Committee of the National Pharmaceutical Union and the directors of the Chemists' Defence Association, Ltd., were held in London, on January 23, Mr. Philip Varley in the chair. In his monthly report THE SECRETARY referred especially to communications which had been received from members stating that they had been served with "Z" recall notices. As no firm arrangements had been made for dealing with questions of call-up for pharmacists the secretary was authorised to support applications for the cancellation of notices where recall was necessary.

THE SECRETARY also reported that the Ministry of Town and Country Planning included No. 3 Queen Square, London, W.C.1, in the list of buildings of special architectural or historic interest compiled under section 30 of the Town and Country Planning Act. (The freehold of that property belongs to the Chemists' Defence Association, Ltd., and the building is used as an annexe to the N.P.U. general office).

A letter was received from Mr. G. A. Mallinson tendering his resignation as a representative of the N.P.U. on the Chemists' Federation council, owing to continued ill health and his inability to undertake regular journeys to London. His resignation

was received with regret.

The following representatives to the C.F. council were elected for the two years ending January 31, 1954: Messrs. A. Aldington, E. A. Brocklehurst and D. N. Hudson together with Mr. P. D. J. Spaander for one year ending January 31, 1953. The following deputies were also elected: Messrs. H. Holmes, H. G. Moss, W. T. Rees and F. G. Wells.

The resignation of Mr. G. A. Mallinson as the N.P.U. representative on the Central Health Services Council and Pharmaceutical Standing Committee was received with regret. The secretary (Mr. H. Noble) was elected to fill the vacancies created.

THE CHAIRMAN submitted a report upon a meeting of pharmaceutical organisations convened by the Pharmaceutical Society for January 21 when the "unity" resolution adopted at the 1951 annual meeting of the Society had been discussed. It was resolved: That the executive would be prepared to consider sending representatives to a "round table conference" of pharmaceutical organisations.

A resolution passed at the South-western Area conference that the payment for N.H.S. prescriptions on a national basis was not fair to scattered regions in the south-west of England is to be considered by the Penman Working Party.

## MEMBERS' SYMPOSIUM AT HOUNSLOW

A MEETING of the Hounslow Branch of the Pharmaceutical Society held in Hounslow on January 8 presented a symposium of talks by four members each dealing with their own branch of pharmacy. Miss E. M. Bristowe (chief pharmacist, West Middlesex Hospital) said that she had entered hospital pharmacy "without enthusiasm," but had remained to appreciate the satisfaction that it brought. She compared and contrasted duties in hospital pharmacy with those in other branches of pharmacy. The hospital pharmacist was in "more conscious contact" with the treatment of disease and had greater facilities for making use of academic knowledge, she said. Mr. J. E. Coulter reviewed the revolution in and evolution of retail pharmacy during the past half century and the effect on retail business of competition of multiples, the introduction of the National Health Insurance Act expanding to the present National Health Service, and the value of the Proprietary Articles Trade Association.

### Public Service

Of particular importance was the "terrible volume of public service" maintained by the retail chemist. Idealists might criticise some aspects of retail, but the "dreamers and schemers of today" might easily become the realists and practical people of tomorrow. Mr. W. Waterman, M.P.S. (head of the pharmaceutical department, Parke, Davis & Co., Ltd.), spoke on qualifications, conditions and prospects in manufacturing pharmacy. He said that hospital and retail pharmacy were today more dependent on manufacturing pharmacy than ever before and would be even more so in the future. There was tendency to consider it necessary to hold a B.Pharm. or Ph.C. for a successful career in manufacturing pharmacy, but the M.P.S., with good retail experience and a sound knowledge of pharmaceuticals, had plenty of scope. Many factory problems were those of retail or hospital on a larger scale. Owing to the scarcity of pharmacists and the high salaries that could be demanded in retail, there was a tendency for manufacturers to recruit "pure chemists" for executive positions, which, in his opinion, should be held by pharmacists or pharmaceutical chemists. Dr. A. L. Glenn (lecturer in pharmaceutical chemistry, School of Pharmacy, University of London) said that the large-scale manu-

facture of pharmaceuticals meant that in the future the pharmacist would have to provide knowledge rather than skill.

### Emphasis on Pharmacology

The future pharmacist could serve the medical profession as an adviser on many drugs and preparations in current use, but that would require a much better grounding in pharmacology and chemotherapy. In the past the Society's education policy had paid scant attention to the fact that 95 per cent. of all pharmacists were engaged in retail, hospital or medical propaganda work. They could have gained much from a course "heavily biased towards pharmacology." Instead they had had to assimilate much material that could rarely be put to practical use. It was too early to give a proper assessment of the Society's new policy, but the new examination seemed to bear too much resemblance to the old Ph.C.

## NORTH METROPOLITAN QUESTIONS AND ANSWERS

At a joint meeting of the North Metropolitan Branches of the Pharmaceutical Society and National Pharmaceutical Union held recently, Messrs. T. Reid, member of the Society's Council and Aldington (a member of the N.P.U. Executive and London Executive Council) discussed "Pharmaceutical Organisation today" in question and answer form. A summary of the discussion is as follows (Mr. Aldington's remarks in italics):—

Has the N.P.U. considered arranging a group superannuation scheme covering proprietors and employees? *The N.P.U. has rejected that for the present. No financial advantage could be given to individual proprietors and the terms per employee are relatively high.*

*It is said that some members of the Society's Council go about with their heads in the clouds and that they have little knowledge of the practical difficulties of the retail pharmacist. Is the present education policy designed to produce pharmacists who will look down on retail pharmacy? Of the twenty-one Council members seventeen are engaged in retail practice and, of these, six are also members of the N.P.U. executive. There should be more lack of appreciation of the requirements*

etail pharmacy. The old examination bus was overloaded. The new course ld, it was hoped, produce an all-round ititioner of pharmacy.

a levy is put upon prescriptions will the ral National Health Service commit- endeavour to secure safeguards against on uncollected dispensing and to en- a limit to the number of items that be ordered on one form. *The N.P.U. ld demand adequate safeguards.*

*ould a register of dispensing assistants o the advantage of pharmacy or would result in a dilution of labour?* There a danger that recognition of dispensing tants might be used in bargaining by Ministry. Where could the line re- ing length of experience for such ple be drawn?

*ould it be a good thing if areas covered*

*by the N.P.U. and the Society's branches were the same? Yes.*

*Do you consider that the Birdsgrove House charges are too light?* Those who wished could pay more by donations.

Cannot something be done to bring the retailer into the Chemists Federation contract? *Retailers could show their support during a C.F. fortnight.*

Would it be possible for some prescriptions to be priced by the contractor? *Some pharmacists could remember the early days when they sat up until the early hours pricing their scripts and they did not want a return to those days. Figures submitted by the central checking bureau showed a pricing error of only 0.1 per cent. Forty per cent. of the scripts were now being priced, representing 55 per cent. of the total value submitted.*

## DEBATE ON RECOGNITION OF DISPENSERS

Thames Valley Pharmacists' and Vbledon Pharmacists' Associations held annual debate at Kingston-on-Times on January 24, Mr. F. C. Wilson sident of the Pharmaceutical Society) ne chair. The motion was "That the cial Recognition of the Unqualified dispenser is neither Necessary nor Desir-". Mr. A. D. N. HOCKING (chairman, mes Valley Association) pointed out the task of working out the necessary dards would not be easy. Opposing motion Mr. H. J. NEWITT said that as was in favour of the Society rather than Government recognising the unquali- dispenser. Ninety per cent. of dis- ing was today being done by unquali- staffs. If the Society did not give gnition the State might, and in that the distinction between pharmacists recognised dispensers might be slight.

### Difficulties Arising from Standards

seconding the motion Mr. H. S. FEN- pointed out the difficulties of fixing a mum standard of training for a dis- per. Recognition of a lower grade than qualification would hamper the efforts ne Society to obtain a rank higher than of a sergeant for pharmacists in H.M. ces. Mr. N. DEWEY, seconding the op- tion, said that pharmacy today was in rather untidy state." Recognition of unqualified dispenser would give cause pride, leading to better work. A phar- ist's status might even increase by hav- control of several recognised dispensers.

Mr. F. G. DAVIS said that a course of tuition, similar to a modified Apothecaries' Hall course, would be suitable. Mr. H. G. Moss asked who wanted the recognition, the pharmacists or their assistants? Would more interest in it be shown than in the already existing Apothecaries' Hall examination? Mr. W. S. BENJAMIN pointed out that, in hospital practice, recognition of Apothecaries' Hall and of lower standards was already established. The Pharmaceutical Society should arrange whatever standard was necessary.

### Value of the Unqualified

Mr. H. HALL said that an unqualified dispenser could deal with 80-90 per cent. of present-day dispensing and, with the increasing trend towards proprietaries, would be capable of even more in the future. If recognition were granted, and assistants worked under qualified supervision, the shortage of pharmacists would ensure that there would be no competition. Mr. R. COCHRAN said that the only way to ensure adequate salaries for pharmacists was to have lower-grade dispensers working under them.

After summing-up had been done by Messrs. Hocking and Newitt, Mr. Wilson touched briefly on some of the outstanding points of the speeches. It appeared, he said, that those in favour of the motion looked at it from a purely business angle, whilst those opposing felt that it was a question of principle. When he put the motion to the vote, it was lost.



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CLVII FEBRUARY 9, 1952

No. 3755

## Contracting Chemists and Economy Cuts—2

CHEMISTS' remuneration is made up of three main items dispensing fees, on- and container allowance. Payments for rota service are a smaller matter and payments for expenses are, of course, remuneration.

Chemists' dispensing fees are roughly added to cover professional remuneration—proprietor's income and assistants' fees. The latter are still rising and, in the case of the extra penny per prescription recently granted, cannot adequately be met out of existing N.H.S. dispensing fees if a reasonable balance is to remain as the proprietor's income. The majority of other workers in the community find their wages rising periodically, and there seems to be no reason why in a period of rising prices chemist contractors should have their remuneration for professional service reduced by Executive Councils. To most contractors a move in an upward, not a downward, direction appears due, and it is well known that the Central N.H.S. (Contractors) Committee was asked by the Council of representatives of Pharmaceutical Committees on July 25, 1951, to prepare and present a case for increased fees (*C. & D.*, 1951.II.139).

Small chemists then under duress consent that fees should be scaled down and that questions about sterilisation should be revised? Do they admit that much of the careful technique elaborated by conscientious contractors is unnecessary? The answer is

surely to be found in the report of a Bournemouth meeting at which members of the local Executive Council answered contractors' questions on phases of the Service. When asked: "How can a 10 per cent. cut be made in Health Service expenditure without affecting its efficiency?" all agreed that drastic cuts should be made in administrative costs, and clerical work "streamlined," that drug costs could be reduced if doctors were told the prices and if the public were restrained from dictating to their doctors in the matter of suitable remedies, but that any further reduction in fees for the professional services was likely to destroy the service as now recognised.

The allowance for containers was fixed in 1948 at 2½d. per prescription, a figure subsequently halved. When the reduction was made, the resulting figure of 1½d. was recognised by chemists to fall short of the cost of necessary bottles and boxes, and certainly to be incapable of being stretched to cover the other auxiliaries to the delivery of the medicine, such as string, sealing wax, wrapping paper, corks and labels. Only recently (*C. & D.*, January 25, p. 115) a correspondent stressed the inadequacy of the present container allowance, and rising costs are continually increasing the disparity between the actual cost of these items to the chemist and the payment made to him in respect of them by the Ministry of Health. It might be suggested that, in view of present wastages of medicine bottles through failure to recover them from patients, a charge should be made for a bottle whenever a mixture or similar preparation is required and the patient does not produce an acceptable container. If—again under duress—that suggestion were accepted, it should be made clear that the transaction was a sale outright. There should be no obligation to take back bottles a contractor considered unsuitable.

## Oncost

In the matter of oncost to cover overhead expenses of providing a pharmaceutical service, the figure originally agreed upon was again reduced, this time by 25 per cent. Everything it is intended to cover is steadily rising in cost, and over-

head charges of every description cost more now than they did when the National Health Service was introduced. At a recent meeting of Worthing chemists it was stated that the trade in toilet goods and cosmetics must be maintained because it was still required in order to balance the inadequacy of the receipts from N.H.S. At times, in the pharmacy, capital expenditure is necessary for new equipment, alterations and replacements, but the present allowance for oncost leaves no margin for those contingencies and can stand no paring down. Costs of drugs and materials steadily rise, and the value of the present allowance diminishes at a rapid enough rate without its being reduced by periodical cuts.

### Rota Fees

Fees allowed to contractors for rota work outside contract hours amount annually and nationally to a considerable total. Shall chemists be asked to forgo those payments and keep open, say, an hour later each evening in order to contribute to the national economy drive while neighbouring traders close as usual and take no part in any similar sacrifice? Merely to ask the question is to show that proposals to cut the chemists' present remuneration are largely impracticable because of the wider problems they create.

Thus a careful review of the contractors' position reveals no point at which reductions in rates of payment can be justified. As a body chemists are loyally prepared to bear their fair share of national burdens, and to suffer equally with their fellows such reductions in income as may be considered necessary to restore the nation's financial stability. But they see no reason why they should be called upon, as a small section of the community, to suffer reductions in remuneration that are not equally shared by other wage earners and salaried workers, and their apprehension arises because of the arbitrary action taken against them on previous occasions, which resulted in a serious depreciation in the value of their contract.

In a third and concluding article we shall consider possible economies in prescribing and sum up from the standpoint of chemist contractors.

### Powers of Directors

A JUDGE in the Superior Court at Montreal, Canada, has ruled that, so long as the directors of a company stay within their rights and act legally, their acts of administration cannot be rescinded at the will of a majority of shareholders. The decision arose out of an action and counter action brought by the tenant and directors respectively of the Ukrainian National Federation of Quebec. The Federation's directors had given notice to Jack Cooperman, who had conducted a chemist's shop at premises owned by the Federation at 3600 St. Lawrence Boulevard for twenty years. The premises would then go to the highest bidder. Members of the organisation adopted a resolution to renew Cooperman's lease for five years, and Cooperman entered an action to have the decision of the members maintained. A second action was entered for the directors, on whose behalf the Canadian Companies' Act was cited to support his contention that "unless otherwise provided, the directors possess authority to exercise all the powers of the company." The judge supported the contention. He said that under the Companies' Act "the directors are supreme masters in administration matters and financial policies, and their decision to lease the store to another party stands as final and legal."

### A Side-effect of Addiction

WHAT is referred to by the "Lancet" as "bulges in the bowels of drug addicts" have been revealed radiologically in a series of diamorphine and morphine addicts examined by three doctors at a Paris hospital. They discovered a dilatation of the colon in twenty-six cases; of the duodenum in seven; of the stomach in four; of the œsophagus in three; and of the rectum in two. The dilatations were not connected with constipation, since some constipated patients were free of them and only half the patients with the enlarged colon were constipated. The writers do not profess to explain the causes of the bulges, though they offer possible explanations of their mechanism, which is a little at variance with the expected effect of a single dose in a non-addict.



## CORRESPONDENCE

Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor

### Stamps and Dentifrice

SIR,—Is there any foundation in the rumour that a certain well-known philatelic dealer is presenting each buyer of a large packet of assorted stamps with a free tin of dentifrice?

West Bromwich.

R. D. PETERS.

### Testing Scheme for Prices

SIR,—As there is a testing scheme for accuracy of prescription, may I suggest, instead of expensive and slow-working unsatisfactory pricing bureaux, a simple testing scheme for prices put on the prescriptions by the chemist who made them up. This would be, in my opinion, an important saving of time and money. I would like to hear what your readers think about it. From abroad, it seems so easy. . . .

J. J. BLOCH, D.Sc., Ph.C.

Vevey, Switzerland.

### Leaflet on Eye Lotions

SIR,—We note that in Mr. Gunn's excellent article on aseptic technique *C. & D.*, January 26, p. 120) he mentions the availability of a small leaflet we publish for the guidance of patients using eye lotions. This leaflet was primarily intended for doctors to pass on to their patients, but we should be very glad to supply any retail chemists who feel that they can make use of them.

Loughborough. GENATOSAN, LTD.

N. T. CARTER (Sales Department).

### Quid Pro Quo

SIR,—Experience indicates that pharmacists will accept the unpleasant job of collecting the bobs. Is it too much to hope that the Negotiating Committee will take the opportunity to insist that the Ministry of Health place the container arrangement upon a sound and mutually satisfactory basis? May I suggest that the necessary containers be supplied to contractors free of charge, and then the dispensing fees would realise 20s. to the £1? It is safe to assume that the average size of container and costs will appreciably rise after March 1. We are not trained as salvage collectors, and should refuse to accept the entry to our dispensaries of unclean and unsterile containers.

Bradford.

J. DEWHIRST.

### Old Friends

SIR,—Reading your report of the Scarborough Branch dinner at which my local colleagues honoured me for my lengthy service in pharmacy, I was reminded of another privilege I have held for many years, namely, friendship with every Editor of *THE CHEMIST AND DRUGGIST* since 1916. In July of that year, I was fortunate enough to be first prizewinner in chemistry in the *C. & D.* Corner for Students. After qualifying I wrote an account of the Minor examinations at Edinburgh. Those were the first occasions any effusions from myself appeared in print. I still use daily a copy of "The Art of Dispensing" which is inscribed "In appreciation of Mr. H. M. Hirst's services to the *C. & D.*, from the author, P. MacEwan, 29/12/16" and, as I say, since then I have known every Editor. I regret sincerely the passing of my friend, O. F. C. Bromfield, the news of which came as a severe shock.

Scarborough.

H. M. HIRST.

### Purchase Tax

SIR,—As the most persistent and consistent opponent of the purchase tax from its inception, I appeal to your readers to get resolutions passed at meetings of chemists' and other business associations demanding the abolition of this tax. It was a war tax, and the then Chancellor promised it would end when war ended.

S.E.A.

SIR,—Permit me to use your valuable space in an effort to arouse my fellow-pharmacists, our various trade organisations, and all interested, in purchase tax. It is high time that something was done to save us from having to keep on an average £2,000 or £3,000 capital locked up in the tax. We are not allowed any profit on the money yet we have to pay our staffs to collect it, maintain premises, etc., risk a reduction in tax on non-sale of goods on which tax has been paid, and pay bank interest on overdrafts that would not exist were it not for purchase tax. In view of the Government's tightening up on national spending I feel we should press for an alteration in the method of imposing the tax if it has to be retained. Surely it would be more reasonable to make it

a "sales tax," the retailer affixing the appropriate amount of stamps to each article at the time of sale. The stamps could be purchased from the Post Office daily or as required. That system is, I understand, in vogue on the Continent, and I see no reason why it should not be practicable in this country also. Why should we allow the Government to utilise our capital free of interest?

Larne, co. Antrim.

E. A. POOTS.

### "Chemists Only"

SIR,—The correspondence in your excellent publication with reference to "Chemist's only" dressings reminds me of a ludicrous shock I received recently when I observed some half doz. bottles of the original glucose liquid restorative on the shelves of the local fishmonger. Being situate in a semi-rural area I have found to my cost that, apart from S.I and C.F. items, most of my stock is duplicated on the shelves of the other tradespeople, including grocer, draper, greengrocer, and off-licence-holder. Naturally, whenever I have the opportunity I recommend C.F. products, but it is very discouraging to have my patients leave their prescriptions while they proceed to the local "co-op" to purchase their aspirin, disinfectants, etc. If pharmacists could be made to realise the takings they lose through non-ethical channels they would give the C.F. the support they ought. Before the movement can be really effective we must have singleness of purpose amongst ourselves. A case in point exists locally, for the local traders can obtain their pharmaceutical needs from a firm of wholesale grocers, one director of which is a pharmacist in retail practice.

London, W.C.1.

BM/MAWY.

### Liquid Drugs by Wholesale

SIR,—One can but admire the grocer's assistant who draws the wire through the cheese, puts the cut wedge on the scalepan and swings the pointer dead on to the weight-line. In the course of years, no doubt, a drug-hand at the wholesaler's warehouse develops a similar refinement of dexterity. Drawing off a liquid from bulk he knows just when to stop pouring before transferring the winchester to the weighing machine. Eventually, however, the practised hand passes on and in his place, perhaps, a youth starts on the road of trial and error to acquire an equal skill. Times, however, have greatly changed

since the long and thorough apprenticeships of Victorian days. Economic stress and competition have sharpened, and wholesaler of today cannot afford much margin for error. He may be in competition with large suppliers filling by modern production methods. That is why, a distributor, I range myself on the same side as the larger manufacturers, for while the principal consideration may be sharpened competition in export markets, let us have standardised containers, by volume, and metric quantities.

WET-ROOM BOY

### Accuracy of Medicine Bottle

SIR,—In your issue dated January there appears (p. 67) a paragraph headed "Inaccurate Medicine Bottles." It refers to a statement made at a meeting of the Rotherham Executive Council in a test prescription, only one out of the bottles tested was found to be correct. We ourselves know nothing of this and have not received any complaints about accuracy, but we think that many of our customers throughout the country assuming that, because the test was made in Rotherham, the bottles were necessarily of our manufacture. The matter was reported also in the local Press, and issued a statement as follows:—

This matter is one which has been exercised the minds of many chemists, and in October heard from the National Pharmaceutical Union the following being an extract from their letter

"In recent months we have been experiencing a substantial volume of complaints from retail chemist members in regard to substantial variations in the capacity of medicine bottles. *Those complaints, I must make clear, have arisen in regard to the products of your company, but have been the products of manufacturers who could not be identified with certainty.*"

It will be understood that medicine bottles are made by a large number of manufacturers, but we think it will be found that the product of any reputable manufacturer is satisfactory and of accurate capacity within normal manufacturing tolerances. A further point to be appreciated is that a considerable number of bottles of medicine bottles are supplied for purposes other than for dispensing, and it may be that certain bottles have been returned to chemists for reuse, which were not supplied originally as dispensing bottles.

Yours faithfully,

BEATSON, CLARK & Co., LT

Rotherham.

F. WRAGG, Director



# Pharmacists in Uniform: A Retrospect

By W. R. BETT, M.R.C.S., L.R.C.P., F.R.S.L., F.S.A.Scot., F.C.S.

THE "surgeon's mate" has had a truly chequered army career, for his status and rank have varied from century to century and from country to country, depending on historical, social, and professional factors. Only now, when the position of the qualified pharmacist in society as a whole has become universally recognised, is any semblance of uniformity being achieved. Even so, some countries have made greater progress than others.

Britain can only hang her head in shame and admit that she is, perhaps, the only major country where, though promotion to commissioned rank is open to the pharmacist, he is not appointed as such to commissioned rank in the army. That defect is certainly not due to apathy on the part of the pharmaceutical profession, for long and loud have been editorial pleas for improved conditions for the army pharmacist, frequent have been complaints in the pharmaceutical journals of belittling treatment of the pharmacist by the military authorities, and many have been the constructive schemes put forward for improving his status. Unfortunately such plans, however hopefully proposed, have a habit of wilting in official files. So the British pharmacist remains dissatisfied. Perhaps he would be even more so were he to look back over the years and out across the seas, to examine the position of the army pharmacist in other times and in other lands. Is it a failing of English-speaking peoples to be tardy in recognising the professional standing of their military pharmacists? What happened in the United States of America?

## The Pharmacist in the American Army

During the War of Independence (1775-83) and in the War of 1812-14, the apothecary serving in his professional capacity in the patriots' army held the same rank as the surgeon. In fact, one James Catbush attained the distinction of being appointed Assistant Apothecary-General on August 2, 1814. But with the peaceful years between then and the 1860 War, there was little call for regular pharmaceutical service in the armed forces, with the result that the pharmacist's prestige sank low. In 1862 the "American Journal of Pharmacy" made an editorial plea for the separation of the pharmaceutical service

from that of the surgeon, so as "to give a distinct standing and rank to the pharmacist, as in the French army, with clearly defined duties, that his proper self-respect, and ambition to be eminent in his sphere, may have ample room for display."



In the Belgian Army the late M. Emile Lajeot (1871-1951) rose to be *Général Honoraire Pharmacien* (Major-General Pharmacist). He gained many honours and held many important posts in organisations for war invalids and war veterans.

In May 1862 a law was passed establishing not more than six professional pharmacists as medical storekeepers, with the same pay and allowances as a first-lieutenant in the army, but with no actual rank. Their duties were clearly defined as being concerned "under the direction of the Surgeon General and Medical Purveyors, with the storing and safe keeping of medical and hospital supplies, and with the duties of receiving, issuing and accounting for the same according to regulations." Let us hope this pioneer band of six found in their duties thus defined scope for their "ambition to be eminent" with "ample



room for display." They seem, however, to have been a civil rather than a military attachment to the army.

With the close of the Civil War the clamour for betterment, led chiefly by the official publication of army pharmacists,



Pharmacists in the Royal Navy are normally employed as civil officers. During the 1939-45 war some were given special commissions for certain purposes. Mr. J. Bowman, M.P.S. (now superintending pharmacist Royal Naval Medical Depôt, Rosyth) is shown in the uniform of Lieutenant-Commander (S.P.) R.N.V.R., while serving on the staff of the Vice-Admiral British Pacific Fleet. During the 1939-45 war, pharmacists also entered the "uniformed" Navy direct, and normally rose to the rank of petty-officer.

the "Caduceus," died down, and we hear no more until in 1894 the American Pharmaceutical Association set up a Special Committee on the Status of Pharmacists in the Army and Navy of the United States. That committee surveyed in detail the pharmaceutical services in the armies and navies of many other countries, and made two proposals for changing the status of pharmacists in the United States Army and Navy. The Spanish-American War probably gave a boost to the implementation of those proposals, for a Bill of 1898 established a Hospital Corps of the United States Navy consisting of twenty-five pharmacists, with the rank, pay, and privilege of warrant officers, besides hospital stewards and hospital apprentices. The army authorities seem to have had less advanced ideas. Even in 1903, when the relationship between the pharmaceutical profession and the various public bodies for whom it worked was discussed, the Navy was repre-

sented but the Army declined to send a delegate, stating that "the position of pharmacist or apothecary does not exist in the Army. . . ." Though grudgingly conceding that "there are some graduates of pharmacy and many others competent to fill prescriptions . . . among our sergeants," they declared that "the Sergeant must be first a soldier, the dispensing of the 'ready prepared' table or compounding of the 'simple medicines' required" being only one of his secondary duties."

During the 1914-18 war the two grades of Master Hospital Sergeant and Hospital Sergeant were created. But it was not until August 1922, when the increasing high educational standards required by the profession were coming to be generally recognised, that the Surgeon General could report there were "about fifteen commissioned officers of the Medical Department who are pharmacists, these being commissioned . . . in the grades of captain, first- and second-lieutenants," besides sixty-nine pharmacists "already commissioned in the Medical Administrative Reserve."

In 1936, graduation from a four-year course at a recognised school or college of pharmacy was made the minimum requirement for appointment to the Medical Administrative Corps, and from the start of his career in the army the pharmacist held commissioned rank. In 1943 the U.S. Army Pharmacy Corps was set up. Though recognition came to him late, the American military pharmacist has reason now to be, in general, satisfied with his lot.

## Italy

In striking contrast to English-speaking countries, as long ago as the Renaissance Italy esteemed the pursuit of pharmacy as an *arte nobile*, and pharmacists were considered patricians. The pharmacist of today inherits a tradition of active participation in politics and public life, so it is not surprising that the army also has recognised its pharmacists. At the present time they are commissioned, though not accorded military titles. Their lowest rank is Second Lieutenant, and they may rise to be General.

## Germany

In Germany the status and rank of the pharmacist serving in the army were made uniform only after the establishment of the united German Empire in 1871. Before that date the army pharmacist's status

ried from state to state, from principality to principality. In Prussia, for example, the chief pharmacist was known as *Generalstabsapotheker*, *Oberstabsapotheker*, and *berfeldapotheker*. The latter name was adopted in 1935 and is equal in rank to a lieutenant-colonel.

### Czechoslovakia

In the comparatively modern state of Czechoslovakia the military pharmacist is recruited from the military Reserve, and upon being summoned for active service follows a six months' course in the School of Medical Officers. After passing an examination he takes the rank of Sub-lieutenant and discharges his military duties at military hospital.

In the countries so far mentioned, recruiting of military pharmacists is by direct incorporation of civilian pharmacists into the army, with a brief six months' to a year's training course. A far more efficient and sophisticated system is adopted in countries like France, Belgium, Poland, Spain, Greece, and Jugo-Slavia, where recruitment is by way of an Officers' School of the Medical Service.

In Belgium, for instance, students of pharmacy who have passed an examination in natural sciences may apply to the Officers' School of the Medical Service, which has its four centres in the four university towns. There, in a three years' course, apart from subjects directly relating to pharmacy and its practice, the students are instructed in military and gymnastic exercises under military teachers. They are subject to military discipline.

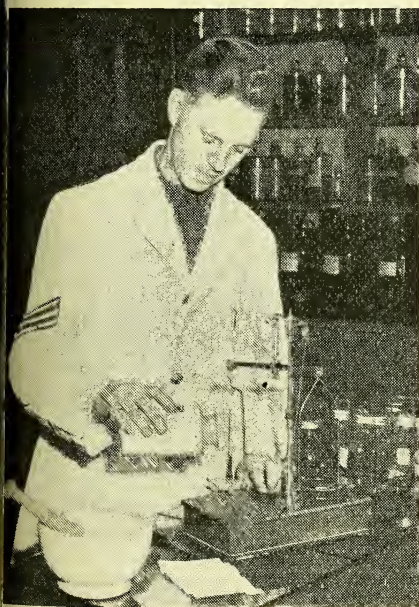
In Spain, candidates who have been successful in their professional examinations are eligible for the Academy of Military Pharmacy.

In the Turkish army, the military pharmacist enjoys the same rights and privileges and draws the same pay as the other officers of similar rank in the regular army. His pharmaceutical studies while he attends the Military Medical School at Istanbul are carried out within the Faculty of Medicine of Istanbul, and the expenses are borne by the Military Medical School. He passes out as a Sub-lieutenant.

Obviously such a system is from a military point of view greatly superior to the direct incorporation of civilian pharmacists into the army. The pharmacist, having followed a systematic course of military and medico-military instruction, becomes a better military pharmacist. The two streams of his professional training are from the beginning well integrated, and his mental attitude is that of "military pharmacist" rather than of "pharmacist in the army but not of it." Moreover, the prospect of a guaranteed career, with the cost of preliminary studies being borne by the state, induces a sufficient inflow of candidates to permit the authorities to choose only the best.

### Military Pharmacists in Civil Life

The problem whether the military pharmacist may engage in private practice or not is one to which different countries have found different solutions. Generally speaking, the more highly organised the system of recruitment and training, the less is the likelihood of his being allowed to take on his own practice. Thus in France and Belgium it is not allowed, while in Brazil, Holland, and other countries, the military pharmacist may engage in civilian practice so long as it does not encroach on his military duties.



A pharmacist in the Royal Army Medical Corps is commonly a Sergeant-Dispenser, but rarely gains promotion to higher rank. The occasional pharmacist who gained a commission would receive it for reasons unconnected with his pharmaceutical qualification.



### French Army Pharmacy

A description of the French army pharmacist has been purposely left to the last, since it is in France that the pharmacist is held in highest esteem, both now and in the past, and the system of recruitment and training is perhaps the most highly developed. The earliest mention of the army pharmacist is to be found in documents dating back to 1630, during the troubled and warring reign of Louis XIII. In 1766, when efforts were being made to bolster up the French army, the permanent office of an "apothecary-major of the battlefields and the armies of the king" was created, the title usually being shortened to "apothecary-major general," and being later changed to *pharmacien inspecteur général*. Today there are two streams of recruitment into the pharmaceutical service. The graduate in pharmacy is accorded the rank of Sub-lieutenant when he enters the Army Medical Service. He performs the same duties and enjoys the same privileges as other officers of comparable rank and, after taking a short course of military instruction, carries out his military duties at a military hospital in one of the university towns. Along the second stream come the students of pharmacy who have been successful in their first examination. They may enter the Military Medical School at Lyons where, while they receive military instruction and take part in military exercises, their professional instruction is given by the Faculty. They, too, are commissioned. Thus recruitment is made at two levels, and the two streams merge to form a highly developed and integrated pharmaceutical service. The French mili-

tary pharmacists are to be congratulated on their achievement. They may well take pride, too, in the impressive list of the distinguished predecessors: Bayen, Cade de Gaissicourt, Fée, Parmentier, Pelletier and Serullas. Charles Laubert, apothecary to Napoleon I's *Grande Armée*, is said to have enjoyed the special favour and confidence of the Emperor.



"I hear those apothecary fellows are asking for a commissioned rank."

### A PHARMACIST'S ANTHOLOGY

A DOCTOR too emerged as we proceeded;  
No one alive could talk as well as he did  
On points of medicine and of surgery,  
For, being grounded in astronomy,  
He watched his patient's favourable star  
And, by his Natural Magic, knew what are  
The lucky hours and planetary degrees  
For making charms and magic effigies.  
The cause of every malady you'd got  
He knew, and whether dry, cold, moist or hot  
He knew their seat, their humour and condition  
He was a perfect practising physician.  
These causes being known for what they were,  
He gave the man his medicine then and there.  
All his apothecaries in a tribe  
Were ready with the drugs he would prescribe,  
And each made money from the other's guile;  
They had been friendly for a goodish while.  
He was well-versed in Asclepius too  
And what Hippocrates and Rufus knew  
And Dioscorides, now dead and gone,  
Galen and Rhazes, Hali, Serapion,  
Averroes, Avicenna, Constantine,  
Scotch Bernard, John of Gaddesden, Gilbertine.

From the prologue to Chaucer's "*Canterbury Tales*" (translated by Nevill Coghill).



Pharmacists in the former German air force. Between two Stabsapotheker is an Oberstabsapotheker (equivalent to a lieutenant-colonel).



# C. & D. REFRESHER COURSE for Pharmacists

Compiled by  
COLIN GUNN, B. Pharm., Ph.C.  
Assisted by  
S. J. CARTER, B. Pharm., Ph.C.  
D. R. BRAGG, B.Sc. (Lond.), B. Pharm., Ph.C.,  
and E. J. FITCHETT, Ph.C.

## 8.—DISINFECTANTS AND ANTISEPTICS

*"They put him to bed and bandaged his head  
With vinegar and brown paper."* —NURSERY RHYME.

**DISINFECTANT**, or germicide, is a substance that will kill disease-producing organisms while an antiseptic merely prevents their multiplication; a substance may be a disinfectant at a certain concentration but only an antiseptic at a lower concentration. Pharmacists stock many preparations for which one or both of these qualities are claimed and most of them fall into one of the following groups.

### Phenol and its Homologues

Phenol, although suitable as a bactericidal in multiple-dose injections and immunological preparations is too toxic and caustic for use by the general public. Introduction of an alkyl group into its mole-

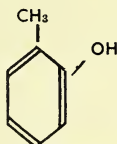
fluids are stabilised emulsions and are more expensive because their method of preparation is more complicated. When diluted with soft water both give fine emulsions but black fluids give a scum with hard water and are more likely to stain linen. Phenolic disinfectants have a wide, non-specific, rapid action against bacteria and are less affected by organic matter, e.g., faeces, than most other germicides; they have a detergent action when formulated with soap and are cheap. Their chief disadvantages are powerful and persistent odours, causticity and toxicity.

### Chlorinated Phenols

The disinfectant power of phenols can also be increased and their causticity greatly reduced by the introduction of not more than two halogen atoms into the nucleus: the most important examples are chlorocresol and chloroxylenol. The systematic name for chlorocresol is *para-chlorometacresol*, the chlorine atom being in the para position to the functional hydroxy group of meta-cresol. Although, like other halogenated phenols, it is only slightly soluble in water, it produces a strongly bactericidal solution (used as a bacteriostat and a bactericide in sterilisation processes). Chloroxylenol (para-chlorometaxylenol or 2-chloro-5 hydroxy 1:3 dimethyl benzene) is also not appre-

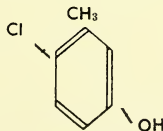


Phenol

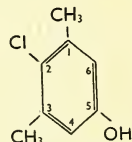


Ortho-cresol

ule increases the disinfectant power, while decreasing the toxicity and therefore cresol B.P., for example, which consists mainly of ortho, meta and para cresols is more safe to use. It is obtained from coal tar and although the mixture of phenols which it contains is difficult to separate, separation is in fact unnecessary as each constituent has antiseptic properties. It is a yellow-brown oil which is only slightly soluble in water but, like many phenols, is much more soluble in soap solutions and this is the form in which it is used in lysol. The higher boiling point phenolic constituents of coal tar are used to prepare the black and white fluids used for domestic purposes. Black fluids, like lysol, are solutions in soap but to reduce expense a cheap soap prepared from resin acids and caustic soda is used. White



Chlorocresol



Chloroxylenol

ciably soluble in water but is soluble in soap solution. The amount and nature of the soap used influence the bactericidal efficiency of the phenol; a castor-oil soap solution shows good activity and is used

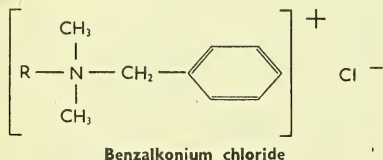
in solution of chloroxylenol, B.P. This type of preparation is very popular because it is non-irritant and the phenolic odour is easily disguised with terpineol or certain volatile oils. Halogenated phenols however are more selective than other phenols and chloroxylenol shows little effect against staphylococci.

### Chlorine Compounds

Bleaching powder and hypochlorite solutions such as eusol and Dakin's solution have long been used as disinfectants. They liberate chlorine readily in the presence of protein and this rapidly kills bacteria. Their rapid combination with protein results in greatly decreased activity in the presence of organic matter (e.g., serum and pus). When used for wounds, therefore, these solutions must be constantly replaced and for this purpose they have been displaced by newer antiseptics. Their quick "kill" and the absence of toxic by-products have resulted in the extensive use of hypochlorites for the disinfection of swimming baths, food utensils and dairy equipment.

### Quaternary Ammonium Compounds

The structure of quaternary ammonium compounds may be best visualised as ammonium chloride or bromide in which the four hydrogen atoms of the ammonium ion have been replaced by four organic radicles that may or may not be the same. For example, cetrimide B.P. consists of a mixture of alkyl ammonium bromides of which the principal constituent is cetyl trimethyl ammonium bromide (see article 4, *C. & D.*, 1951.II.666), while benzalkonium chloride is a mixture of alkyl dimethyl benzyl ammonium chlorides in

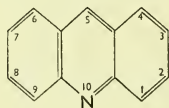


which the R group present is mainly the lauryl group. These substances have both detergent and bactericidal activity and as this is due to the cation they are known as cationic detergents. They dissolve in water to produce non-irritant solutions which penetrate wounds and wet surfaces readily and these properties together with their detergent and bactericidal effects

make them especially valuable for cleaning dirty and greasy wounds or burns. They have a wide range of activity against both Gram-negative and Gram-positive organisms, including staphylococci, and they remain antiseptic in very high dilutions. Their apparent lack of toxicity suggests a wide field of use for those non-medical purposes for which hypochlorites have been most suitable up to the present. They are less active against bacterial spores than phenol, and their effect is reduced by organic matter, hard water and low temperatures.

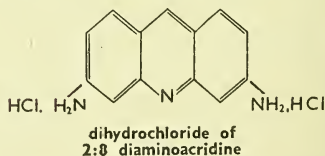
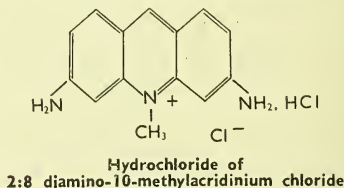
### The Acridines

Certain dyes are used as antiseptics because they are relatively free from toxicity. Well-known examples are brilliant green and crystal violet but the most important are the yellow dyes known as the flavines or acridines. Acridine is a heterocyclic compound of the following structure:—



Acridine

The British system of numbering has been used. All the acridine dyes have this nucleus. Acriflavine B.P., which is a mixture of the two compounds shown below, was introduced as a low toxicity antiseptic with the exceptional ability to retain its activity in the presence of serum.



This mixture, however, has an acid reaction which is irritating and delays wound healing. Euflavine, which differs only in containing the mono- instead of

the di-hydrochloride of 2:8 diaminoacridine, forms a less acid solution and is therefore less irritating. Proflavine hemisulphate B.P. (a salt composed of two molecules of 2:8 diaminoacridine and one molecule of sulphuric acid) has the same bactericidal activity as acriflavine and eufflavine and the advantages of constant composition (as it is not a mixture), an almost neutral reaction and reduced systemic toxicity. Recently introduced substituted acridines are 5-aminoacridine (official as the hydrochloride under the name aminacrine), which produces stable, practically non-staining solutions but has high systemic toxicity, and 2:7 diaminoacridine hydrochloride which is said to have the most rapid action and to show the least general toxicity. All these compounds have good bactericidal action against Gram-positive organisms and a more powerful effect on Gram-negative organisms than penicillin or the sulphonamides.

#### Phenyl Ether of Ethylene Glycol

The substances described and the sulphonamides and penicillin are relatively ineffective against certain Gram-negative organisms and especially against *Pseudomonas pyocyanea* (which causes blue pus in wounds and delays healing). Phenoxetol, which is the mono-phenyl ether of ethylene glycol, appears to be the answer to this problem. It is a colourless non-irritating liquid which (in aqueous solution) has strong activity against *pyocyanea*. Hence it has been suggested that it should be used in conjunction with other antiseptics and disinfectants for local application.

Iodine, in the form of the official weak solution, is still one of the best skin disinfectants. Alcohol, which is still in common use for syringe sterilisation, is only effective at about 70 per cent. concentration, concentrations below 50 or above 80 per cent. being useless.

The Rideal Walker test is frequently used by manufacturers to indicate the potency of disinfectants. In it the disinfectant under test is compared with phenol by finding the concentrations that will kill *Bacillus typhosus* in distilled water at a specified temperature and in a specified time. While it serves to eliminate useless products and supplies standards for those preparations, such as black and white fluids, for which chemical standards cannot be set up, it has severe limitations. It is only reliable if all the conditions of the test are rigidly controlled; variations

in time, temperature, pH, nature of the medium, organism, presence or absence of organic matter all produce different results. It cannot be expected to give reliable results when dissimilar substances are compared; phenol may reasonably be compared with cresol but not with chloroxylenol or a quaternary ammonium compound from which its chemical structure differs widely. It only gives the restricted information that a particular organism will be killed in a certain time under certain conditions and this cannot be regarded as an indication of its efficiency as a wound, skin, or household disinfectant. A reasonable evaluation of a new disinfectant or antiseptic can only be made by considering the results of numerous tests in which all the above-mentioned factors have been varied, its local and systemic toxicity investigated and its behaviour under actual conditions of use studied.

## REVISION QUESTIONS

1. Suggest suitable disinfectants for (a) drains and floors; (b) the skin; (c) the immediate treatment of a burn.
2. Why must soap be rinsed from the hands before using the quaternary ammonium compounds as skin disinfectants?
3. Why is it better to close the mouth of the flask with an inverted beaker than a cotton-wool plug when boiling distilled water for eye preparations.

(Answers p. 192).

## MEDICAL ABSTRACTS

### Staphylococcus Toxoid in Pustular Acne.

—Eventual improvement in twenty-one out of thirty-four Royal Air Force apprentices treated for pustular acne with Staphylococcus toxoid is recorded by Macdonald and Taylor ("Lancet," 1951.261.558), against only five out of thirty-two controls. The improvement was noted at six months, but was not apparent at two to three months.

**Toxicity of Dihydrostreptomycin.**—Don and Gregory ("Lancet," 1952.262.72-75) find that dihydrostreptomycin sulphate, as at present supplied, is toxic to the auditory nerve. In three out of twenty-six tuberculous patients treated with the drug, deafness developed during or after treatment. Audiograms of the other patients showed that one patient had suffered "well marked audiometric loss." There was no evidence to indicate whether the impairment was or was not permanent.



## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, FEBRUARY 6. DEMAND for commodities throughout all markets continues negligible, with no important price changes in PHARMACEUTICAL and FINE CHEMICALS. Any improvement is now thought to be unlikely until after Budget day, and there is relief that the Government has decided to advance the date to March 4.

Importers of CRUDE DRUGS say that there is no pressure on the part of shippers to sell. The indication is that other markets (particularly Germany) are taking their goods. MENTHOL continues dull at further reduced prices, and new-crop GINGER, both African and Jamaican, are easier for shipment. The SHELLAC market had another quiet week, though a few moderate orders passed at lower prices. Zanzibar CLOVES were again firm, with spot supplies held for 6s. 5d. per lb.—an advance of 5d. per lb., on the week. QUASSIA CHIPS are short on the spot, and forward offers are described as difficult. A slightly better demand for KOLA NUTS is reported at shaded prices, owing to an easing by Morocco in the shipment price for CORIANDER SEEDS. Spot material is weaker.

Because of the continued rise in cloves there has been a fair demand for CLOVE OIL, and this item constituted the main feature of the ESSENTIAL OILS market during the week. Manufacturers of English-distilled oil have temporarily withdrawn their schedules. Oils quoted lower on the spot included VETIVERT, ORANGE, GERANIUM, Chinese PEPPERMINT and CITRONELLA (Formosa and Java). LEMON-GRASS, after first declining, improved somewhat.

The Ministry of Materials has announced that the price of virgin MAGNESIUM in ingot form has been raised to 2s 10½d. per lb., an increase of sixpence, due to higher cost of imported supplies and of delivery charges.

### U.S. Drug and Chemical Report

NEW YORK, FEBRUARY 5. A NEW production record was established by the United States sulphur mining industry in 1951, according to the Bureau of Mines. Production of native sulphur totalled 5,278,000 long tons—2 per cent. more than in 1950. Output exceeded 400,000 long tons in every month, reaching the highest levels during the third quarter in which the monthly average was 456,523 tons. In the fourth quarter it declined to an average of 438,096 tons. Apparent sales of 5,095,000 tons were 10 per cent. below 1950 and at the end of the year producers' stocks totalled 2,837,000 tons.

Despite a record output of 28.6 million lb. of DDT in 1951, the supply position, tightening owing to a 20 per cent. set-aside for defence orders, Brazilian MENTHOL has declined by 15 cents per lb., reaching a new low level of \$8.25 per lb., while Chinese available at \$9.25. Forward deliveries Brazilian for March-April shipment (new crop) are offered at \$7.50 per lb., duty paid. VANILLIN supplies are tight but output will be lifted substantially during the year. ESSENTIAL OILS priced lower per lb. included CITRONELLA at 70 cents (down 10 cents); ANISE, \$1.60 (5 cents); Mexican LIME, \$7.50 (60 cents).

### Exchange Rates on London

Rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97½—97½
Amsterdam ...	Florins to £	10.56—10.7
*Bombay ...	Shillings to rupee	1/5½—1/6
Brussels ...	Francs to £	139—141
Copenhagen ...	Kroner to £	19.20—19.4
Dutch West Indies	Florins to £	5.24—5.32
*Hong Kong ...	Shillings to \$	1 2/1½—1/3
*Israel ...	£1 to £	99½—100
*Karachi ...	Shillings to rupee	2/1½—2/1
Lisbon ...	Escudos to £	79.90—81.1
*Montreal T.T.	Dollars to £	2.78½—2.78
New York T.T....	Dollars to £	2.78—2.82
Oslo ...	Kronor to £	19.85—20.1
Paris ...	Francs to £	972—988
*Singapore ...	Shillings to \$	2/4½—2/4
Stockholm ...	Kronor to £	14.37—14.6
*Teheran ...	Rials to £	89.40—91.0
Zurich ...	Francs to £	12.14—12.3

\*Free market rates; remainder Bank of England

### Pharmaceutical Chemicals

ADRENALINE.—B.P. is from 1s. 2d. 1s. 7d. per gm. for bulk quantities.

AMIDOL.—In 14-lb. lots the price is 1 per lb.; 7-lb., 19s. 6d.

BENZYL BENZOATE. — Makers offer B grade at from 5s. to 6s. per lb.

CALCIFEROL. — Price of 1-kilo lots 25-gm. ampoules) is now 5s. 9d. per gm.

CITRATES.—Rates (per lb.) are as follows:—POTASSIUM, 1-cwt. lots, 4s. 1½; 28-lb., 5s. 1d. SODIUM, 1-cwt., 3s. 6½; 28-lb., 4s. 5d. (powder in both cases penny more). IRON and AMMONIUM, graded, 1-cwt., 4s. 5½d.; 28-lb., 5s. (Scales are threepence per lb. more).

CREAM OF TARTAR.—Rates for the trade are as follows:—10-cwt. lots, 25s. per cwt.; 5-9-cwt., 25½s.; 2-4-cwt., 25s. 1-cwt., 25½s., delivered.

DEXTROSE. — Rates for MONOHYDRATE, (quantities under 5-cwt.) are: 1-lb. tins, 22s. 6d. per doz.; 7-lb. tins, 3d. each; 14-lb. tins, 25s.; 28-lb. tins, less 12½ per cent. to wholesalers; delivered. In quantities of 5-cwt. and 7-lb. tins are 1s.; 14-lb. tins, 1s. 6d.; 28-lb. tins, less than above prices. ANHYDROUS, B.P. (quantities under 5-cwt.) prices as follows:—7-lb. tins, 13s. 9d.; 14-lb. tins, 26s.; and 28-lb. tins, 49s.; less 12½ per cent. to wholesalers; delivered. Reductions for quantities of 5-cwt. and 7-lb. are the same as for monohydrate.

EMETINE SALTS.—Rates per oz. are as follows:—HYDROCHLORIDE, 32-oz. lots, 16s.; 16-oz., 33s.; 4-oz., 336s.; 1-oz., 167s. BISMUTH IODIDE, 32-oz., 167s.; 16-oz., 171s.; 4-oz., 171s.; 1-oz., 174s.

ETHER. — Prices of TECHNICAL, B.S.S., SOLVENT, B.P., in winchesters are (per lb.) as follows:—10-cwt. lots, 5½d.; 5-cwt., 2s. 6½d.; 48-lb., 2s. 7½d.; 28-lb., 2s. 9d. Rates for ANÆSTHETIC, B.P., in winchesters are:—10-cwt. lots, 3s. 9½d.; 5-cwt., 3s. 10½d.; 1-cwt., 3s. 11½d.; 72-lb., 40½d.; 36-lb., 4s. 2½d.; 24-lb., 4s. 4½d. 1-lb. bottles, prices are 2½d. in ½-lb. bottles, 7½d.; and in ¼-lb. bottles, 1s. 4½d. 1-lb. more than the above prices. In drums, prices are 1½d. per lb. less than corresponding winchester prices. Containers are charged and are returnable.

GLYCEROPHOSPHATES.—Rates per lb. for 1-lb. lots are as follows:—ACID, 20 per cent., 8s. 10d.; CALCIUM, soluble, B.P.C., 9s. 9d.; IRON, B.P.C., scale, 17s. 9d.; powder, 16s. 9d.; MAGNESIUM, soluble, B.P.C., 21s. 6d., and insoluble, 12s. 3d.; SODIUM, 30s.; POTASSIUM, 50 per cent., 1d., and 75 per cent., 8s. 6d.; SODIUM, 60 per cent., 4s. 8d., and 75 per cent., 6d.

HYPOPHOSPHITES. — Prices per lb. are changed as follows:—

SALT	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
MONIUM ...	12 10	12 5	12 0
IUM ...	7 10	7 5	7 0
CIUM ...	5 11	5 6	5 1
N ...	12 1	11 8	11 3
NESIUM ...	9 4	8 11	8 6
NGANESE ...	10 11	10 4	9 6
ASSIUM ...	7 11	7 6	7 1
IUM ...	6 7	6 2	5 9

ISOPROPYL ALCOHOL.—Advanced. Prices range from 18s. 3d. to 19s. 9d. per lb., as to quantity.

KAOLIN.—In 1-cwt. bags, LIGHT is quoted at 90s. per cwt., and HEAVY at about 84s. per cwt.

LACTOSE.—English, in 1-ton lots packed in 2-cwt. kegs, £142 per ton; in 1-cwt. kegs, £143 per ton. In 1-cwt. paper-lined kegs, 5s. per cwt. less than the above rates, delivered in the United Kingdom.

MAGNESIUM CARBONATE. — Rates are:—In 5-cwt. lots, 149s. 8d. per cwt.; 1-cwt., 155s. 2d. (in bulk). In quantities from 28-lb. and less than 1-cwt. prices are from 1s. 10d. to 2s. 1½d. per lb., as to quantity. HEAVY, B.P., in bulk is as follows:—1-cwt., 167s.; 5-cwt., 158s. per cwt.; in quantities of 28-lb. and less than 1-cwt. prices are from 2s. to 2s. 4d. per lb., as to pack.

PHENACETIN.—1-cwt. lots are 6s. 9d. per lb.; 56-lb., 6s. 10d.; 28-lb., 7s.

PHENOLPHTHALEIN.—Rate for 1-cwt. lots is 11s. 10d. per lb.

PHOSPHORIC ACID.—B.P. is 1s. 4½d. per lb. in 1-2 carboy lots. HYPOPHOSPHOROUS, B.P.C., in winchesters, is from 5s. 9d. to 6s. 10½d. per lb., as to quantity.

POTASSIUM PERMANGANATE. — Rates for material packed in 1-cwt. drums are as follows:—

QUANTITY	B.P., per lb.	TECHNICAL, per cwt.
1 cwt.	1s. 7½d.	172s.
3 cwt.	1s. 7d.	168s.
5 cwt.	1s. 6½d.	163s.
1 ton	1s. 6d.	158s. 6d.
5 tons up.	1s. 5½d.	154s.

In 5-cwt. drums prices are 1s. per cwt. less than above. Terms: Net, delivered nearest railway station in Great Britain; drums charged extra and returnable.

QUININE. — Makers' rates (per oz.) to home-trade distributors are given below:—additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; ACETYSALICYLATE, 6s. 3d. to 6s. 9d.; BISULPHATE, 3s. 7d. to 4s. 1d. DIHYDROBROMIDE and DIHYDROCHLORIDE, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE, and PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s.; SALICYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. to 4s. 6d.; QUININE and UREA HYDROCHLORIDE is quoted from 4s. 10d. to 5s. 4d.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d. Scheduled rates for quantities of 28-lb. and under 1-cwt. are from 3s. 7d. to 3s. 11d. as to pack.

STILBESTROL.—Quotations are from 1s. to 1s. 4d. per gm., as to quantity.

SODIUM SULPHATE. — Feathery crystals are 18s. 6d. per cwt.; medium, 17s. 6d.; and granular, 22s. 6d. per cwt. Exsiccated is 45s. per cwt. in 1-ton lots, ex works.

SULPHAGUANIDINE. — Rates are as follows: 5-cwt. lots, 22s. 6d.; 1-cwt., 22s. 9d.; 56-lb., 23s.; 28-lb., 23s. 7d. per lb.

SULPHANILAMIDE. — Rates are as follows:—5-cwt. lots, 9s. 6d.; 1-cwt., 9s. 8d.; 56-lb., 9s. 11d.; 28-lb., 10s. 0½d. per lb.

SULPHOCARBOLATES.—SODIUM PHENOLSULPHONATE, B.P.C. (powder) is now 6s. 5d. per lb. in 28-lb. lots; 7-lb., 6s. 9d. per lb. ZINC, B.P.C., is 6s. 1d. per lb. (28-lb.).

## TRADE MARKS

From the "Trade Marks Journal," January 23

*For catamenial tampons and sanitary towels* (5).  
AMIRA, 699,521, by Amandi G.m.B.H., Weisbaden, Germany.

*For medicated toilet paper* (5).  
SANICO, 701,553, by the British Patent Perforated Paper Co., Ltd., London, E.9.

*For adrenocorticotrophic compounds* (5).  
ADACTHAR, 700,425, by Armour & Co., Chicago, U.S.A.

*For insect repelling and destroying preparations* (5).  
EFLOW, 703,153, by Somerset Toler Wolfe, Norwich.

*For pharmaceutical preparations* (5).  
PROPILE, B703,123, by Walter Stanley Carslake, Surbiton. WINPAK, 703,151, by Thornton & Ross, Ltd., Huddersfield.

*For pharmaceutical preparations for veterinary purposes* (5).  
SWIVAX, 703,319, by Allied Laboratories, Inc., Kansas City, U.S.A.

*For medicated pastilles* (5).  
PEKSNIP, 703,044, by Joseph Lingford & Son, Ltd., Bishop Auckland.

*For appliances for holding safety-razor blades* (8).  
ALORIX, 702,922, by Alorix, Ltd., London, S.W.1.

*For scientific glassware* (9).  
CIRCSEAL, 702,100, by W. Edwards & Co. (London), Ltd., London, S.E.26.

*For non-medicated toilet paper* (16).  
SANICO, 701,554, by the British Patent Perforated Paper Co., Ltd., London, E.9.

From the "Trade Marks Journal," January 30

*For horticultural and agricultural chemicals* (1).  
REGULEX, 702,672, by N.V. Philips-Roxane Pharmaceutisch-Chemische Industrie Duphar, Weesp. PLANTELS, 703,206, by United Chemists Association, Ltd., Cheltenham.

*For non-medicated toilet preparations* (3).  
VELTIS, 701,708, by Bengué & Co., Ltd., Alperton. GLAMOTINT, B702,188, by Cyclax, Ltd., London, W.1.

*For all goods* (5).  
HEMOTONINE, B682,419, by Chimie & Atomistique, Paris.

*For fungicides, insecticides, and chemical substances for the treatment of ringworm and fungous diseases in human beings, cattle and other animals* (5).  
CUPRINOL, 685,408, by Cuprinol, Ltd., London, W.1.

*For pharmaceutical hormone preparations* (5).  
PRIMOCORTON, B696,421, by Schering A.G., Berlin.

*For pharmaceutical products and preparations for human and veterinary use, medical and surgical plasters, dressings, disinfectants, fungicides and sanitary substances* (5).  
NEVANTOL, 698,789, by Cilag, A.G., Schaffhausen.

## PRINT AND PUBLICITY

**Medical Leaflets.**—Leaflets, folders and books, obtainable from manufacturers included below:—

ABBOTT LABORATORIES, LTD., 3 Wadsworth Perivale, Greenford, Middlesex: "The Res System" (4-p. folder).

ALLEN & HANBURYS, LTD., Bethnal Green, E.2: "Premedication, No Need to the Clock" (4-p. leaflet on Hyperdure injection).

ANTIGEN LABORATORIES, LTD., 95 Great Portland Street, London, W.1: "Thia-Semi-PAS" booklet on combined chemotherapy of tubercle with para-amino-salicylic acid and thiacetazone.

EDWARD GURR, LTD., 42 Upper Richmond East Sheen, London, S.W.14: "The Micro Bulletin" (4-p. list of recent products for microscopy); "Michrome Brand Stains and Media for Fluorescence Microscopy" (4-p. price list).

GEORGE T. GURR, LTD., 136 New King's Road, S.W.6: "Gurr's Commentary on Laboratory Methods" (4 pp. of abstracts of microscopy staining techniques).

GLAXO LABORATORIES, LTD., Greenford, Middlesex: "Eltroxin, synthetic thyroid hormone" p. booklet about drug previously known as roxine-sodium-Glaxo); "The Story of B<sub>12</sub>" (12-p. booklet).

PHARMACEUTICAL SPECIALITIES (MAY & LTD., Dagenham, Essex: "Anthiomaline" (1952 edition of 24-p. booklet); "For Accurate titration of Dosage—Sulphatriad Suspension" (1952); "Ascabiol" (sixth edition of 18-p. booklet).

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts: "Dromoran" (6-p. folder); "Synalgin" (blotter); "Gantrisin" (blotter); "The 800 Courier," No. 1, 1952 (4 pp.); "The 800 Courier" index to vols. XVI and XVII.

**Display Outer.**—Kemsales, Ltd., 20 East London, E.C.3, have produced a display case for Besorbon snuff. A Press campaign is in progress.

**Medical Bacteria List.**—The third edition of "Species Maintained in the National Collection of Type Cultures" has been published by the Medical Research Council memorandum office, Stationery Office, York House, Kingsway, London, W.C.2, price one shilling. The collection contains only bacteria that are of medical or veterinary interest.

## Answers to Revision Questions

1. (a) Lysol or a black or white precipitate. (b) Iodine or a quaternary ammonium compound. (c) A quaternary ammonium compound.

2. Quaternary ammonium compounds are incompatible with anionic detergents such as soap.

3. A plug sheds fibres and becomes dusty and the contents can be cooled by running water over the surface of the beaker.





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